Select Series LED Direct Troffer Luminaires

Product Specifications

TCP's Select Series LED Direct Troffer Luminaires feature backlit technology with a robust construction that still offers a slim, low-profile design with beautiful full panel diffusion and superior uniformity. These energy-efficient troffers offer a cost-effective solution to maximize energy savings and take advantage of potential utility rebates where applicable.

Applications: T-bar Grid Ceilings

Reasons to choose the Select Series LED Direct Troffers Luminaires from TCP

- Save up to 43% over traditional LED flat panels
- Provides energy savings over fluorescent alternatives and potential rebate eligibility
- Long 50,000 hour rated life significantly reduces maintenance labor and material costs
- Excellent color consistency and CRI enhance color of focal point while maintaining uniformity throughout lighting installation

- Mercury free construction is great for all environments
- Fits standard 1" and 9/16" T-bar grid ceilings
- Utilizes backlit technology for full diffusion with excellent uniformity
- Slim, low-profile design and lightweight for easy handling
- Battery Backup is Title 20 Compliant

Ideal Applications

- Office
- Retail Stores

- Schools
- Hospitality

- Restaurants
- Healthcare

Not all versions of this product are qualified on the DLC QPL. To view our DLC qualified products, please consult the DLC Qualified Products List at www.designlights.org/qpl.

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5 YEAR WARRANTY

Specifications

Wattage (W)
1x4
SW2 ....32W/22W/18W/15W
SW5 ....46W/36W/26W/22W
SW6 ....65W/55W/46W/36W
2x2
SW2 ....32W/22W/18W/15W
SW5 ....46W/36W/26W/22W
SW6 ....65W/55W/46W/36W
2x4
SW3 ....32W/26W/22W/18W
SW5 ....46W/36W/26W/22W
SW6 ....65W/55W/46W/36W
SW8 .... 85W/75W/65W

Lumens (L)
1x4
SW2 ....4600L/3200L/2800L/2325L
SW5 ....6624L/5200L/3800L/3200L
SW6 ....9360L/7920L/6624L/5200L
2x2
SW2 ....4600L/3200L/2800L/2325L
SW5 ....6624L/5200L/3800L/3200L
SW6 ....9360L/7920L/6624L/5200L
2x4
SW3 ....5200L/3800L/3200L/2600L
SW5 ....6624L/5200L/3800L/3200L
SW6 ....9360L/7920L/6624L/5200L
SW8 ....10,000L/8800L/7600L

Lumens Per Watt (LPW) ....>130 LPW
Input Line Voltage ....120-277 VAC
Input Line Frequency (Hz 50/60Hz
Rated Life.. 50,000 hours
Minimum Starting Temperature ....-20°C
Maximum Operating Temperature.. 40°C
CRI   >80
Power Factor ....>90%
THD   <20%
Ratings ....UL/cUL damp location rated, IC rated, IP20
Controls.. 0-10V dimming (standard)

1x4

2x2

2x4
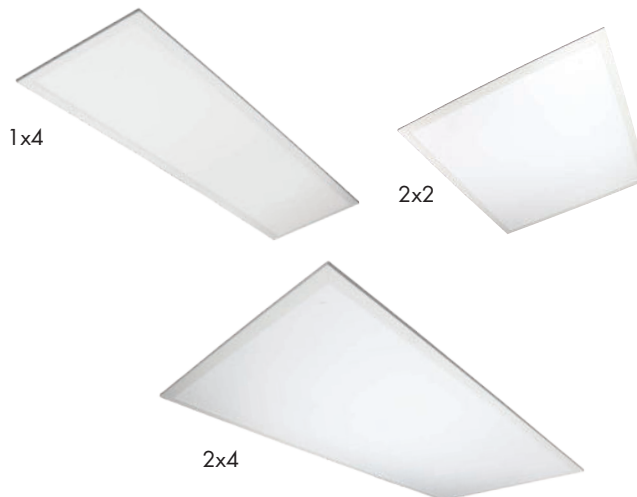
Replacement Strategy

SYSTEM	BALLAST FACTOR	LUMENS	INPUT WATTS*	LED ENERGY SAVINGS
TCP LED Direct Troffer - 2x4	—	5200	36	—
3 Lamp 32W T8 HBF	1.18	6960	93	61%
3 Lamp 32W T8 NBF	0.88	6681	89	60%
2 Lamp 32W T8 HBF	1.18	4658	65	45%
2 Lamp 28W T5	1.0	4675	63	43%
2 Lamp 32W T8 NBF	0.88	4468	59	39%

*Actual wattage may differ by +/- 5%, when operating between 120-277V +/- 10%.

NOTE: Charts show system lumens (delivered lumens), NOT straight lamp lumen output. This is calculated as follows:
System lumens = mean lumens x # lamps x ballast factor x luminaire efficiency factor

Quick Click Installation

Step 1:

Look for this sticker on the back of the light fixture.

Place Driver Here
Step 3: Gently secure driver to light engine with the installed push pins.
Step 1: Pull light engine wires into the driver and connect.
Step 2: Slide tabs into slots on light engine.

Step 2:

Follow the directions to secure the driver to the fixture.
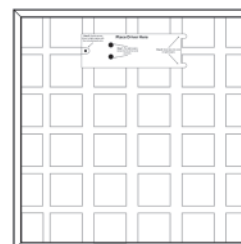
Scan QR Code to view an installation tutorial.

DLC QPL LISTED | c UL US LISTED | 5 YEAR WARRANTY

Applications

TCP Select Series LED Direct Troffers are cost-effective, high-efficiency alternatives to traditional T5, T8 and T12 linear fluorescent troffers. Featuring a slim, low-profile design, our LED DT Series Luminaires use backlit technology to deliver full panel diffusion and superior uniformity that meets or exceeds the output from edge-lit panels. Applications include offices, schools, retail locations, healthcare, hospitality and other T-grid and commercial ceilings.

Construction

- Rectangular white frame
- Lens: frosted white diffuser
- IP20 rated
- IC rated for direct contact with insulation
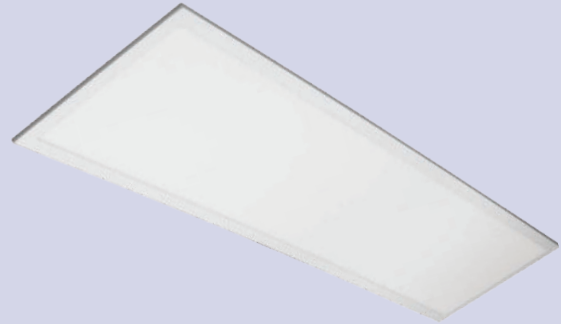- Designed for easy drop into T-bar grid ceilings

Electrical

- UL/cUL damp location rated
- 0-10V dimming driver (standard)
- LED driver with integrated junction box
- System rated for long 50,000 hour life

Optics

- Backlit technology provides even, uniform lighting
- 120° beam angle
- Frosted diffuser for reduced glare and aesthetic appeal
- Meets or exceeds the look and performance of edge-lit panels

Item Number		
Notes		**Type**

Listings
UL/cUL Listed
IC Rated
RoHS Compliant

Lumen Maintenance
L70 > 54000 hours

Warranty
Five year limited warranty against defects in manufacturing.

Catalog Ordering Matrix

FAMILY	SIZE	VOLTAGE	DIMMING	WATTAGE[1,2]	COLOR TEMPERATURE	OPTIONS	FRAME OPTIONS
DTF = Direct Troffer Frosted	**1** = 1' x 4'	**U** = 120-277V	**ZD** = 0-10V Dimming	**SW2** = 32/22/18/15W (4600/3200/2800/2200L) **SW5** = 46/36/26/22W (6624/5200/3800/3200L) **SW6** = 65/55/46/36W (9360/7920/6624/5200L)	**CCT** = 3500/4100/5000K Selectable **6CCT** = 2700/3000/3500/ 4100/5000/6500K Selectable	**BLANK** = None **IS** = Integrated Sensor **EB** = Battery Backup **CP** = Chicago Plenum **NLS** = DLC Network Lighting Sensor	**BLANK** = White Fame **BLK** = Black Frame

Accessories:

Item Number	Description
YHANGER6PK	Y FIT CABLE HANGER 6 PACK (HANGS 3 UNITS)
DTSK1	SURFACE MOUNT KIT FOR 1X4 PANELS
DTFLK1	RECESS MOUNT FLANGE KIT FOR 1X4 PANELS
ISREMOTE	REMOTE FOR INTEGRATED SENSOR

[1] Approximate lumen output. Actual performance may vary based on CCT, options selected and end user application.
[2] Actual wattage may differ by +/- 5%; when operating between 120-277V +/- 10%.

Specifications subject to change without notice.

For the most up-to-date specs and warranty information, please visit www.tcpi.com

5 YEAR WARRANTY

Dimensions and Mounting Data
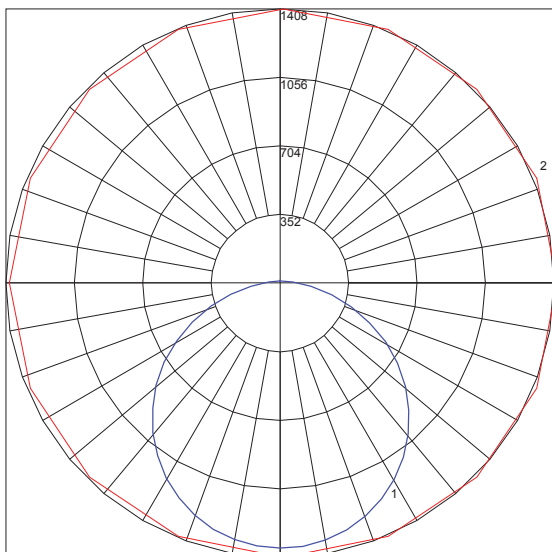
2.75″ (69.85mm)

48" (1219.2mm)

2.75″ (69.85mm)

12" (304.5mm)

Photometric Report

Based on photometric data for
TCP Item # DTF1UZDSW2CCT (32W, 41K)

Polar Graph

Maximum Candela = 1407.6 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

Average Luminance
candelas/square meter (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3631	3602	3585
55	3506	3474	3437
65	3292	3239	3179
75	2892	2795	2680
85	2165	1983	1746

Spacing Criterion

(0-180): 1.28, (90-270): 1.28

Coefficients of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixt
0-20	493.60	N.A.	12.71
0-30	1095.31	N.A.	27.02
0-40	1722.30	N.A.	44.34
0-60	3056.50	N.A.	78.68
0-80	3808.40	N.A.	98.04
0-90	3881.50	N.A.	99.92
10-90	3910.96	N.A.	96.70
20-40	1281.49	N.A.	31.70
20-50	2010.58	N.A.	49.70
40-70	1887.56	N.A.	46.70
60-80	782.93	N.A.	19.40
70-80	283.30	N.A.	7.00
80-90	76.63	N.A.	1.90
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.01	N.A.	0.00
90-180	0.76	N.A.	0.00
110-180	0.76	N.A.	0.00
0-180	3884.70	N.A.	100.00

Total Luminaire Efficiency = N.A.%

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5 YEAR WARRANTY

Applications

TCP Select Series LED Direct Troffers are cost-effective, high-efficiency alternatives to traditional T5, T8 and T12 linear fluorescent troffers. Featuring a slim, low-profile design, our LED DT Series Luminaires use backlit technology to deliver full panel diffusion and superior uniformity that meets or exceeds the output from edge-lit panels. Applications include offices, schools, retail locations, healthcare, hospitality and other T-grid and commercial ceilings.

Construction

- Rectangular white frame
- Lens: frosted white diffuser
- IP20 rated
- IC rated for direct contact with insulation
- Designed for easy drop into T-bar grid ceilings

Electrical

- UL/cUL damp location rated
- 0-10V dimming driver (standard)
- LED driver with integrated junction box
- System rated for long 50,000 hour life

Optics

- Backlit technology provides even, uniform lighting
- 120° beam angle
- Frosted diffuser for reduced glare and aesthetic appeal
- Meets or exceeds the look and performance of edge-lit panels

Item Number		
Notes		Type

Listings

UL/cUL Listed
IC Rated
RoHS Compliant

Lumen Maintenance

L70 > 54000 hours

Warranty

Five year limited warranty against defects in manufacturing.

Catalog Ordering Matrix

SELECTABLE WATTAGE WITH SELECTABLE CCT

FAMILY	SIZE	VOLTAGE	DIMMING	WATTAGE[1,2]	COLOR TEMPERATURE	OPTIONS	FRAME OPTIONS
DT = Direct Troffer Frosted	2 = 2' x 2'	U = 120-277V	ZD = 0-10V Dimming	SW2 = 32/22/18/15W (4600/3200/2800/2200L) SW5 = 46/36/26/22W (6624/5200/3800/3200L) SW6 = 65/55/46/36W (9360/7920/6624/5200L)	CCT = 3500/4100/5000K Selectable 6CCT = 2700/3000/3500/ 4100/5000/6500K Selectable	BLANK = None IS = Integrated Sensor EB = Battery Backup CP = Chicago Plenum NLS = DLC Network Lighting Sensor	BLANK = White Fame BLK = Black Frame

Accessories:

Item Number	Description
YHANGER6PK	Y FIT CABLE HANGER 6 PACK (HANGS 3 UNITS)
DTSK4	SURFACE MOUNT KIT FOR 2X4 PANELS
DTFLK4	RECESS MOUNT FLANGE KIT FOR 2X4 PANELS
ISREMOTE	REMOTE FOR INTEGRATED SENSOR

[1] Approximate lumen output. Actual performance may vary based on CCT, options selected and end user application.
[2] Actual wattage may differ by +/- 5%; when operating between 120-277V +/- 10%.

Specifications subject to change without notice.

For the most up-to-date specs and warranty information, please visit www.tcpi.com

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5 YEAR WARRANTY
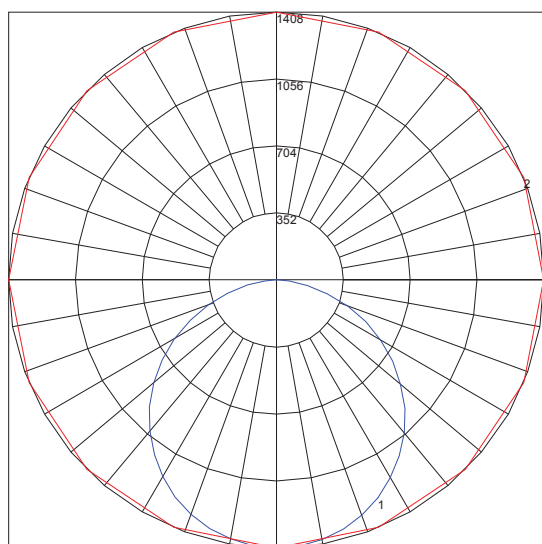
Dimensions and Mounting Data

2.75"
(69.85mm)

24"
(609mm)

Photometric Report

Based on photometric data for
TCP Item # DTF2UZDSW2CCT (32W, 41K)

Polar Graph

Maximum Candela = 1407.6 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

Average Luminance
candelas/square meter (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3631	3602	3585
55	3506	3474	3437
65	3292	3239	3179
75	2892	2795	2680
85	2165	1983	1746

Spacing Criterion (0-180):   1.28
Spacing Criterion (90-270):   1.28

Coefficients of Utilization – Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	56	50	45	43
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7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixt
0-20	515.20	N.A.	12.70
0-30	1095.31	N.A.	27.10
0-40	1796.69	N.A.	44.40
0-60	3184.62	N.A.	78.70
0-80	3967.55	N.A.	98.10
0-90	4044.17	N.A.	100.00
10-90	3910.96	N.A.	96.70
20-40	1281.49	N.A.	31.70
20-50	2010.58	N.A.	49.70
40-70	1887.56	N.A.	46.70
60-80	782.93	N.A.	19.40
70-80	283.30	N.A.	7.00
80-90	76.63	N.A.	1.90
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.01	N.A.	0.00
90-180	0.76	N.A.	0.00
110-180	0.76	N.A.	0.00
0-180	4044.93	N.A.	100.00

Total Luminaire Efficiency = N.A.%

DLC QPL LISTED

c UL us LISTED

5 YEAR WARRANTY

Applications

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- IP20 rated
- IC rated for direct contact with insulation
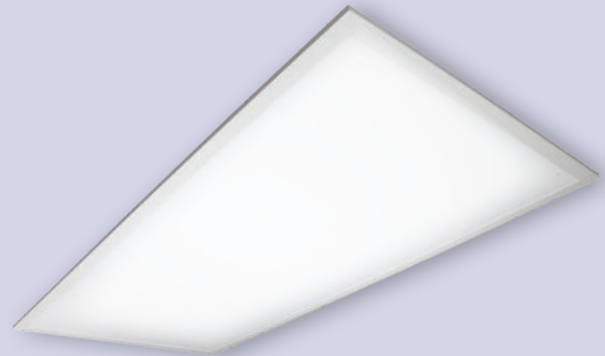- Designed for easy drop into T-bar grid ceilings

Electrical

- UL/cUL damp location rated
- 0-10V dimming driver (standard)
- LED driver with integrated junction box
- System rated for long 50,000 hour life

Optics

- Backlit technology provides even, uniform lighting
- 120° beam angle
- Frosted diffuser for reduced glare and aesthetic appeal
- Meets or exceeds the look and performance of edge-lit panels

Item Number		
Notes		Type

Listings

UL/cUL Listed
IC Rated
RoHS Compliant

Lumen Maintenance

L70 > 54000 hours

Warranty

Five year limited warranty against defects in manufacturing.

Catalog Ordering Matrix

FAMILY	SIZE	VOLTAGE	DIMMING	WATTAGE[1,2]	COLOR TEMPERATURE	FACTORY INSTALLED OPTIONS	FRAME OPTIONS
DTF = Direct Troffer Frosted	**4** = 2' x 4'	**U** = 120-277V	**ZD** = 0-10V Dimming	**SW3** = 36/26/22/18W (5200/3800/3200/2600L) **SW5** = 46/36/26/22W (6624/5200/3800/3200L) **SW6** = 65/55/46/36W (9360/7920/6624/5200L) **SW8** = 85/75/65W (10,000/8800/7600L)	**CCT** = 3500/4100/5000K Selectable **6CCT** = 2700/3000/3500/4100/5000/6500K Selectable	**BLANK** = None **IS** = Integrated Sensor **EB** = Battery Backup **CP** = Chicago Plenum **NLS** = DLC Network Lighting Sensor	**BLANK** = White Fame **BLK** = Black Frame

Accessories:

Item Number	Description
YHANGER6PK	Y FIT CABLE HANGER 6 PACK (HANGS 3 UNITS)
DTSK4	SURFACE MOUNT KIT FOR 2X4 PANELS
DTFLK4	RECESS MOUNT FLANGE KIT FOR 2X4 PANELS
ISREMOTE	REMOTE FOR INTEGRATED SENSOR

[1] Approximate lumen output. Actual performance may vary based on CCT, options selected and end user application.
[2] Actual wattage may differ by +/- 5%; when operating between 120-277V +/- 10%.

Specifications subject to change without notice.

For the most up-to-date specs and warranty information, please visit www.tcpi.com

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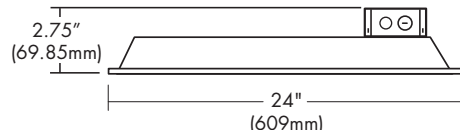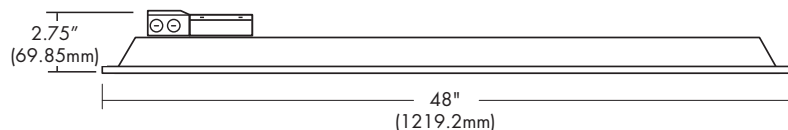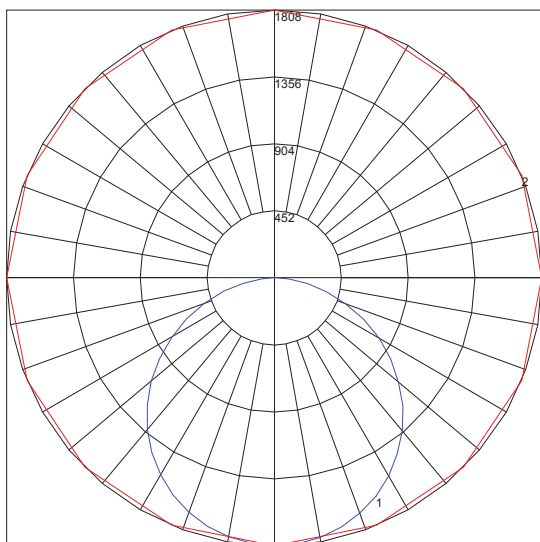
5 YEAR WARRANTY

Dimensions and Mounting Data

2.75"
(69.85mm)

48"
(1219.2mm)

2.75"
(69.85mm)

24"
(609mm)

Photometric Report

Based on photometric data for
TCP Item # DTF4UZDSW3CCT (36W, 41K)

Polar Graph

1808
1356
904
452

Maximum Candela = 1808.2 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

Average Luminance
candelas/square meter (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2333	2317	2318
55	2254	2237	2229
65	2125	2092	2083
75	1904	1866	1822
85	1499	1470	1394

Spacing Criterion (0-180):   1.28
Spacing Criterion (90-270):   1.28

Specifications and dimensions subject to change without notice.

Coefficients of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixt
0-20	661.93	N.A.	12.70
0-30	1407.56	N.A.	26.90
0-40	2309.2	N.A.	44.20
0-60	4094.49	N.A.	78.40
0-80	5115.44	N.A.	97.90
0-90	5222.48	N.A.	100.00
10-90	5051.35	N.A.	96.70
20-40	1647.27	N.A.	31.50
20-50	2584.72	N.A.	49.50
40-70	2431.84	N.A.	46.60
60-80	1020.95	N.A.	19.50
70-80	374.40	N.A.	7.20
80-90	107.04	N.A.	2.00
90-110	0.62	N.A.	0.00
90-120	0.62	N.A.	0.00
90-130	0.62	N.A.	0.00
90-150	0.67	N.A.	0.00
90-180	1.55	N.A.	0.00
110-180	0.94	N.A.	0.00
0-180	5224.04	N.A.	100.00

Total Luminaire Efficiency = N.A.%

Not all versions of this product are qualified on the DLC QPL. To view our DLC qualified products, please consult the DLC Qualified Products List at www.designlights.org/qpl.

DLC QPL LISTED

C UL US LISTED

5 YEAR WARRANTY

TECHNOLOGY CAST IN A BEAUTIFUL LIGHT

For over 30 years, TCP has been designing, developing and delivering energy-efficient lighting into the market. Thanks to our cutting-edge technology and manufacturing expertise, we have shipped billions of high quality lighting products. With TCP, you can count on a lighting product that is designed to meet the needs of the market - that transforms your surroundings and envelopes you in warmth - lighting that generates beauty with every flip of the switch.

Sales:	Catalog Number:
Date:	Type:
Model:	Notes:
Project:	
Rep:	**TCP®** we know light.™