

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P297355

Luminaire Tested: **D3X-WO-50L82765-LD5-UNV-24-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297355
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-50L82765-LD5-UNV-24-T1-W2A-2700K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4580.0 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

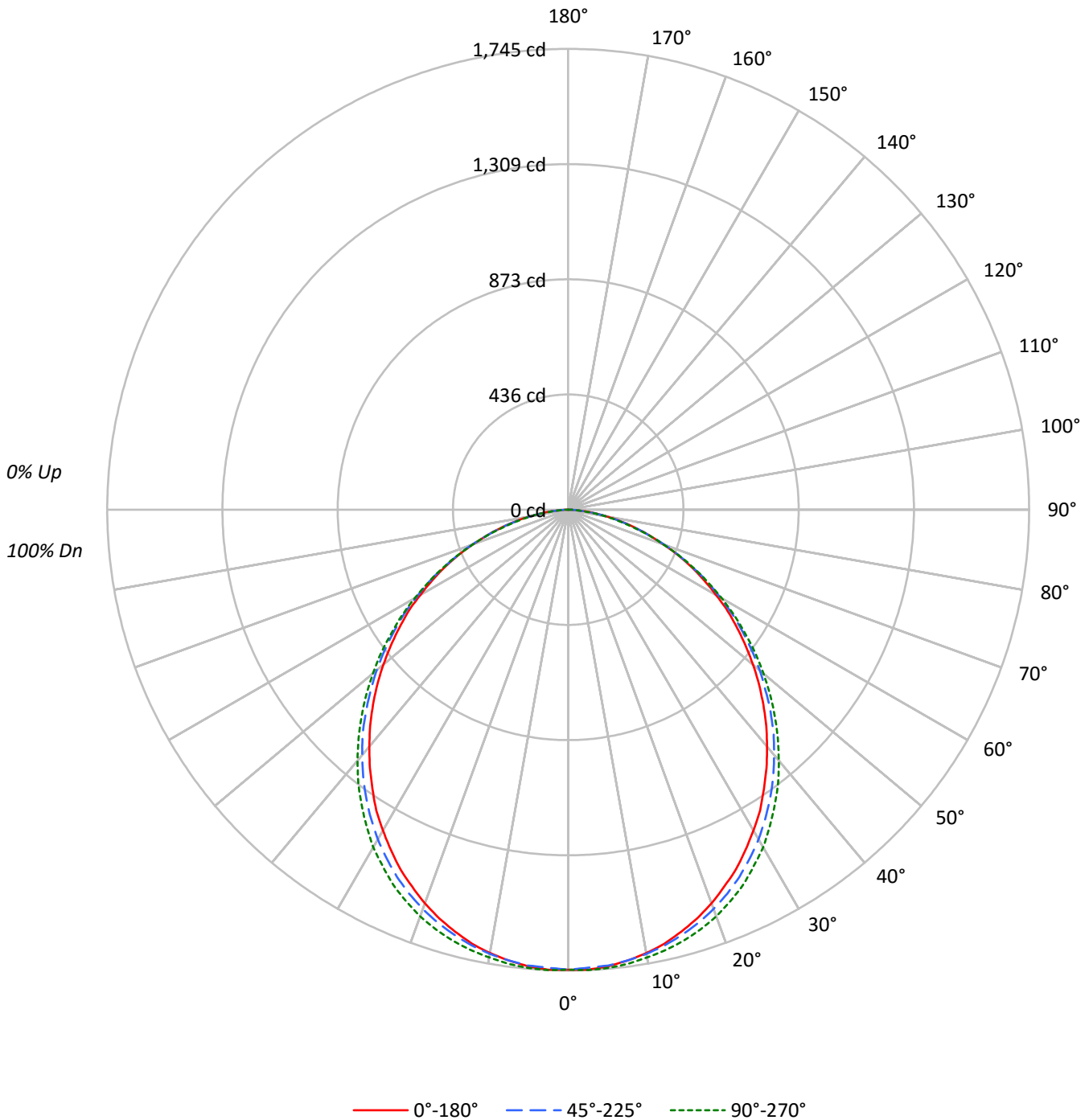
Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	41	39					39			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2344	2344	2344
5°	2344	2340	2353
10°	2329	2333	2352
15°	2304	2321	2353
20°	2271	2304	2346
25°	2231	2277	2327
30°	2179	2239	2294
35°	2121	2190	2240
40°	2057	2130	2179
45°	1987	2061	2105
50°	1912	1983	2018
55°	1831	1889	1918
60°	1739	1785	1806
65°	1641	1665	1675
70°	1505	1524	1505
75°	1355	1347	1307
80°	1148	1136	1099
85°	857	834	738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.9	3.6
10°-20°	471.1	10.3
20°-30°	706.4	15.4
30°-40°	831.9	18.2
40°-50°	832.0	18.2
50°-60°	717.9	15.7
60°-70°	516.5	11.3
70°-80°	274.0	6.0
80°-90°	65.3	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1342.4	29.3
0°-40°	2174.2	47.5
0°-60°	3724.1	81.3
0°-90°	4580.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4580.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1742	1742	1742	1742	1742	
5°	1736	1734	1733	1739	1742	165
15°	1654	1658	1666	1683	1689	466
25°	1503	1512	1534	1560	1568	691
35°	1291	1307	1333	1356	1364	808
45°	1044	1058	1083	1102	1106	806
55°	781	788	805	819	818	699
65°	515	517	523	526	526	510
75°	261	258	259	253	252	277
85°	56	56	54	49	48	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1741.9	1741.9	1741.9	1741.9	1741.9
2.5°	1743.4	1740.3	1735.7	1741.9	1744.9
5°	1735.7	1734.1	1732.6	1738.8	1741.9
7.5°	1721.8	1723.3	1721.8	1731.1	1734.1
10°	1704.8	1706.4	1707.9	1718.7	1721.8
12.5°	1683.2	1684.8	1689.4	1703.3	1707.9
15°	1653.9	1658.5	1666.3	1683.2	1689.4
17.5°	1623.1	1629.2	1640.0	1660.1	1666.3
20°	1586.0	1593.7	1609.2	1630.8	1638.5
22.5°	1544.4	1552.1	1573.7	1596.8	1604.5
25°	1502.7	1512.0	1533.6	1559.8	1567.5
27.5°	1453.3	1465.7	1488.8	1515.1	1521.2
30°	1402.4	1413.2	1441.0	1465.7	1476.5
32.5°	1351.5	1362.3	1388.5	1413.2	1420.9
35°	1291.4	1306.8	1333.0	1356.2	1363.9
37.5°	1232.7	1246.6	1274.4	1297.5	1305.2
40°	1171.0	1183.4	1212.7	1234.3	1240.4
42.5°	1109.3	1121.6	1151.0	1167.9	1174.1
45°	1044.5	1058.4	1083.1	1101.6	1106.2
47.5°	979.7	990.5	1013.6	1030.6	1036.8
50°	913.4	924.2	947.3	961.2	964.3
52.5°	847.0	854.7	876.3	888.7	893.3
55°	780.7	788.4	805.4	819.2	817.7
57.5°	717.4	720.5	737.5	746.7	746.7
60°	646.4	649.5	663.4	669.6	671.1
62.5°	580.1	584.7	595.5	597.1	597.1
65°	515.3	516.8	523.0	526.1	526.1
67.5°	450.5	449.0	455.1	455.1	453.6
70°	382.6	385.7	387.3	384.2	382.6
72.5°	320.9	319.4	319.4	317.8	317.8
75°	260.7	257.7	259.2	253.0	251.5
77.5°	205.2	200.6	199.0	195.9	192.9
80°	148.1	148.1	146.6	143.5	141.9
82.5°	98.7	98.7	97.2	94.1	91.0
85°	55.5	55.5	54.0	49.4	47.8
87.5°	18.5	18.5	18.5	18.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)