

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: P297368

Luminaire Tested: **D3X-WO-55L82765-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297368
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-55L82765-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5637.0 lumens
Efficiency: N/A
Efficacy: 144.2 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

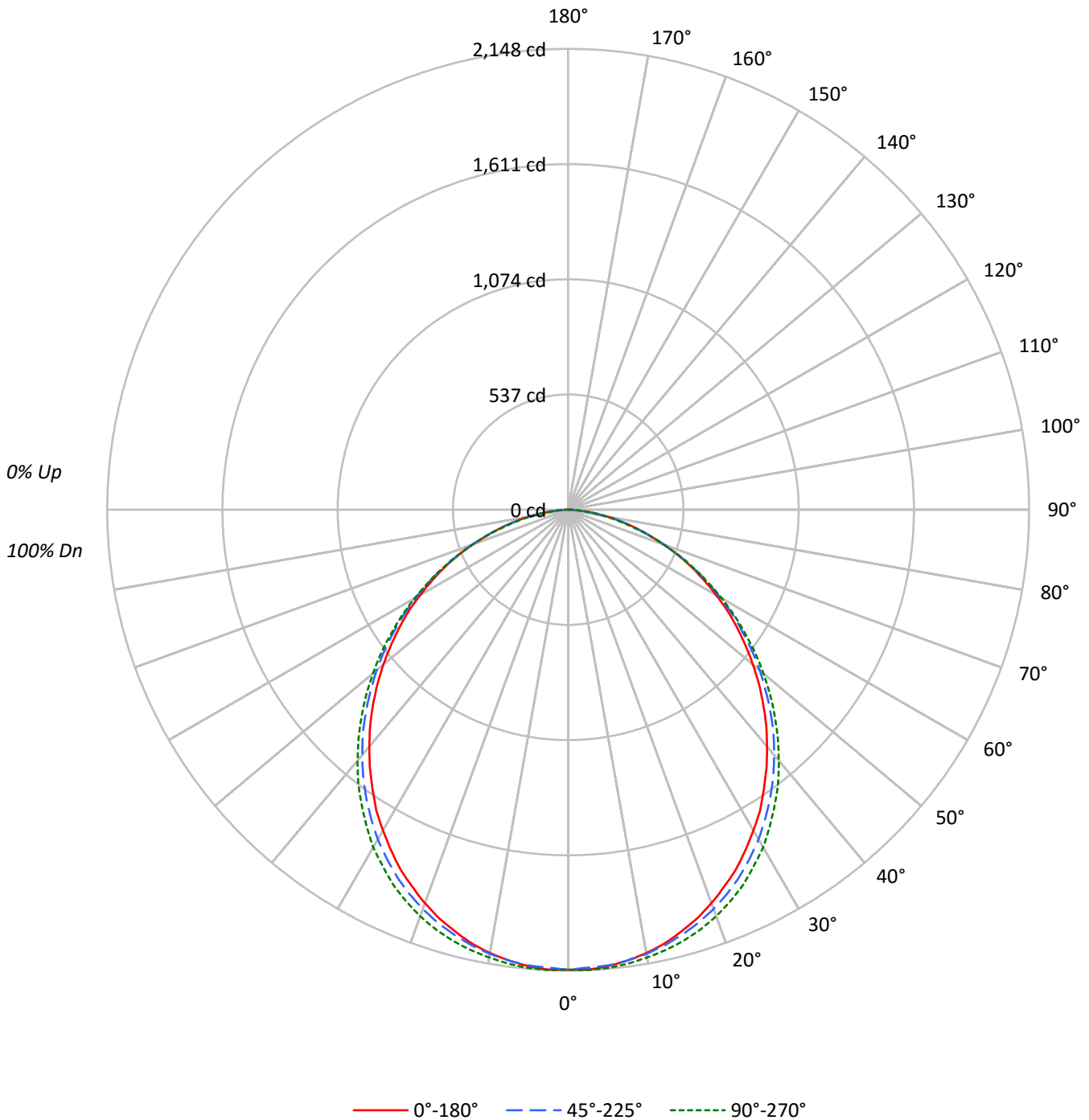
Input Watts (W): 39.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2885	2885	2885
5°	2885	2880	2896
10°	2867	2872	2895
15°	2835	2857	2896
20°	2795	2836	2887
25°	2746	2802	2864
30°	2682	2756	2823
35°	2611	2695	2757
40°	2532	2621	2682
45°	2446	2536	2591
50°	2353	2440	2484
55°	2254	2325	2361
60°	2141	2197	2223
65°	2019	2049	2061
70°	1852	1875	1852
75°	1668	1658	1609
80°	1413	1398	1354
85°	1056	1027	909



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.0	3.6
10°-20°	579.8	10.3
20°-30°	869.4	15.4
30°-40°	1023.8	18.2
40°-50°	1024.0	18.2
50°-60°	883.5	15.7
60°-70°	635.8	11.3
70°-80°	337.2	6.0
80°-90°	80.4	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°	1652.2	29.3
0°-40°	2676.0	47.5
0°-60°	4583.6	81.3
0°-90°	5637.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5637.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2144	2144	2144	2144	2144	
5°	2136	2134	2132	2140	2144	203
15°	2036	2041	2051	2072	2079	574
25°	1850	1861	1888	1920	1929	851
35°	1589	1608	1641	1669	1679	994
45°	1286	1303	1333	1356	1362	992
55°	961	970	991	1008	1006	860
65°	634	636	644	648	648	627
75°	321	317	319	311	310	341
85°	68	68	66	61	59	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2143.9	2143.9	2143.9	2143.9	2143.9
2.5°	2145.8	2142.0	2136.3	2143.9	2147.7
5°	2136.3	2134.4	2132.5	2140.1	2143.9
7.5°	2119.2	2121.1	2119.2	2130.6	2134.4
10°	2098.3	2100.2	2102.1	2115.4	2119.2
12.5°	2071.7	2073.6	2079.3	2096.4	2102.1
15°	2035.6	2041.3	2050.8	2071.7	2079.3
17.5°	1997.6	2005.2	2018.5	2043.2	2050.8
20°	1952.1	1961.6	1980.6	2007.1	2016.6
22.5°	1900.8	1910.3	1936.9	1965.4	1974.9
25°	1849.5	1860.9	1887.5	1919.8	1929.3
27.5°	1788.8	1804.0	1832.4	1864.7	1872.3
30°	1726.1	1739.4	1773.6	1804.0	1817.2
32.5°	1663.4	1676.7	1709.0	1739.4	1748.9
35°	1589.4	1608.4	1640.6	1669.1	1678.6
37.5°	1517.2	1534.3	1568.5	1597.0	1606.5
40°	1441.3	1456.5	1492.5	1519.1	1526.7
42.5°	1365.3	1380.5	1416.6	1437.5	1445.1
45°	1285.6	1302.6	1333.0	1355.8	1361.5
47.5°	1205.8	1219.1	1247.6	1268.5	1276.1
50°	1124.1	1137.4	1165.9	1183.0	1186.8
52.5°	1042.5	1052.0	1078.6	1093.8	1099.5
55°	960.8	970.3	991.2	1008.3	1006.4
57.5°	883.0	886.8	907.7	919.1	919.1
60°	795.6	799.4	816.5	824.1	826.0
62.5°	714.0	719.7	733.0	734.9	734.9
65°	634.2	636.1	643.7	647.5	647.5
67.5°	554.5	552.6	560.2	560.2	558.3
70°	470.9	474.7	476.6	472.8	470.9
72.5°	395.0	393.1	393.1	391.2	391.2
75°	320.9	317.1	319.0	311.4	309.5
77.5°	252.6	246.9	245.0	241.2	237.4
80°	182.3	182.3	180.4	176.6	174.7
82.5°	121.5	121.5	119.6	115.8	112.0
85°	68.4	68.4	66.5	60.8	58.9
87.5°	22.8	22.8	22.8	22.8	22.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)