

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: P297367

Luminaire Tested: **D3X-WO-55L82765-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297367
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-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5539.0 lumens
Efficiency: N/A
Efficacy: 142.8 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

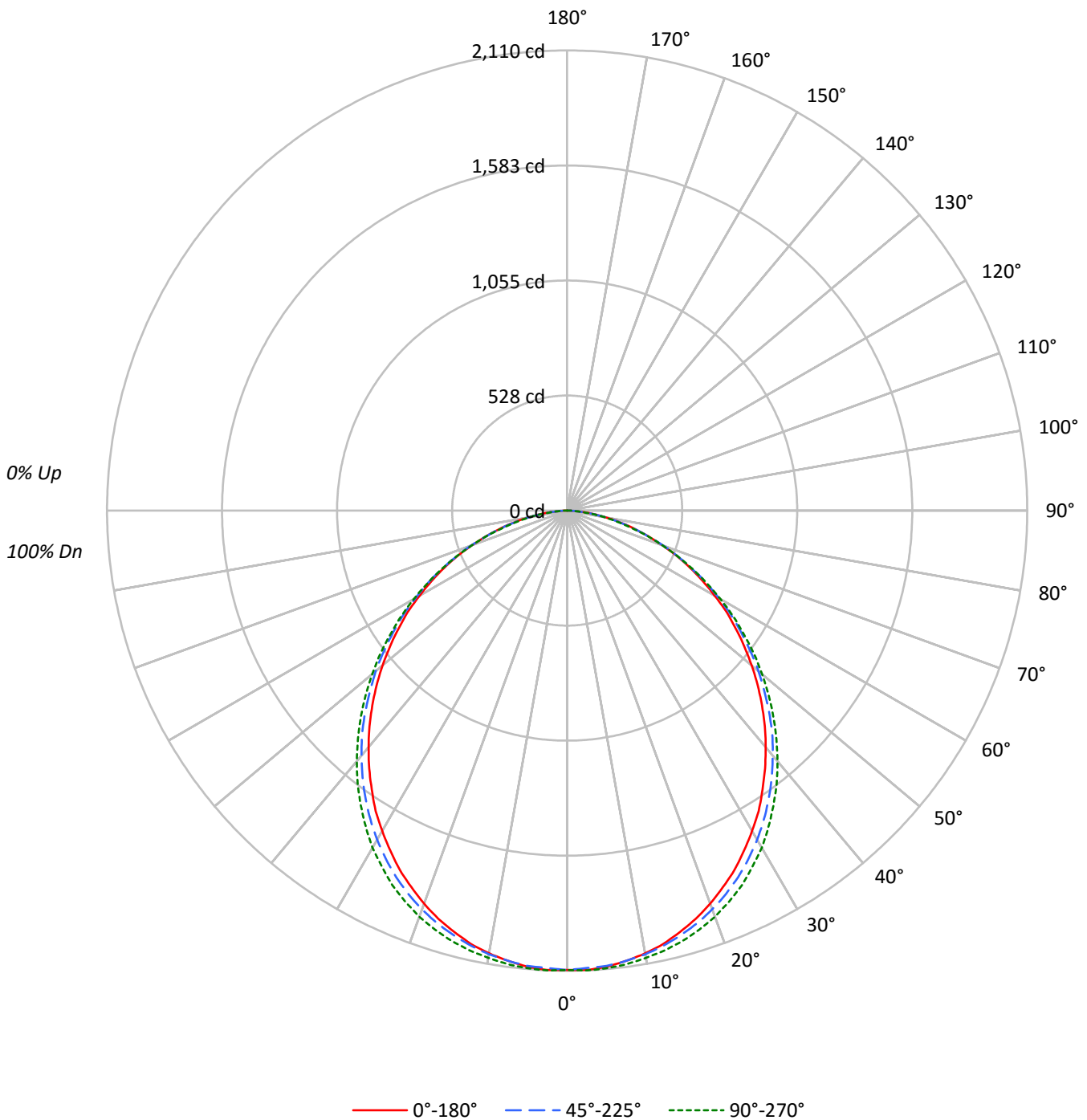
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2834	2834	2834
5°	2835	2830	2845
10°	2817	2822	2845
15°	2786	2807	2846
20°	2746	2787	2837
25°	2698	2753	2814
30°	2635	2708	2774
35°	2565	2648	2709
40°	2487	2576	2635
45°	2404	2492	2546
50°	2312	2398	2441
55°	2215	2285	2320
60°	2104	2159	2184
65°	1984	2014	2026
70°	1820	1842	1820
75°	1639	1630	1581
80°	1388	1374	1330
85°	1037	1008	892



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.5	3.6
10°-20°	569.8	10.3
20°-30°	854.3	15.4
30°-40°	1006.0	18.2
40°-50°	1006.2	18.2
50°-60°	868.2	15.7
60°-70°	624.7	11.3
70°-80°	331.4	6.0
80°-90°	79.0	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°	1623.5	29.3
0°-40°	2629.5	47.5
0°-60°	4503.9	81.3
0°-90°	5539.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5539.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2107	2107	2107	2107	2107	
5°	2099	2097	2095	2103	2107	199
15°	2000	2006	2015	2036	2043	564
25°	1817	1829	1855	1886	1896	836
35°	1562	1580	1612	1640	1649	977
45°	1263	1280	1310	1332	1338	974
55°	944	954	974	991	989	845
65°	623	625	632	636	636	616
75°	315	312	314	306	304	335
85°	67	67	65	60	58	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2106.6	2106.6	2106.6	2106.6	2106.6
2.5°	2108.4	2104.7	2099.1	2106.6	2110.3
5°	2099.1	2097.3	2095.4	2102.9	2106.6
7.5°	2082.3	2084.2	2082.3	2093.5	2097.3
10°	2061.8	2063.7	2065.5	2078.6	2082.3
12.5°	2035.7	2037.5	2043.1	2059.9	2065.5
15°	2000.2	2005.8	2015.2	2035.7	2043.1
17.5°	1962.9	1970.4	1983.4	2007.7	2015.2
20°	1918.1	1927.5	1946.1	1972.2	1981.6
22.5°	1867.8	1877.1	1903.2	1931.2	1940.5
25°	1817.4	1828.6	1854.7	1886.4	1895.7
27.5°	1757.7	1772.6	1800.6	1832.3	1839.8
30°	1696.1	1709.2	1742.7	1772.6	1785.7
32.5°	1634.5	1647.6	1679.3	1709.2	1718.5
35°	1561.7	1580.4	1612.1	1640.1	1649.4
37.5°	1490.8	1507.6	1541.2	1569.2	1578.5
40°	1416.2	1431.1	1466.6	1492.7	1500.2
42.5°	1341.6	1356.5	1392.0	1412.5	1419.9
45°	1263.2	1280.0	1309.9	1332.2	1337.8
47.5°	1184.8	1197.9	1225.9	1246.4	1253.9
50°	1104.6	1117.7	1145.7	1162.4	1166.2
52.5°	1024.4	1033.7	1059.8	1074.7	1080.3
55°	944.1	953.5	974.0	990.8	988.9
57.5°	867.6	871.4	891.9	903.1	903.1
60°	781.8	785.5	802.3	809.8	811.7
62.5°	701.6	707.2	720.2	722.1	722.1
65°	623.2	625.1	632.5	636.3	636.3
67.5°	544.8	543.0	550.4	550.4	548.6
70°	462.7	466.5	468.3	464.6	462.7
72.5°	388.1	386.2	386.2	384.4	384.4
75°	315.3	311.6	313.5	306.0	304.1
77.5°	248.2	242.6	240.7	237.0	233.2
80°	179.1	179.1	177.3	173.5	171.7
82.5°	119.4	119.4	117.6	113.8	110.1
85°	67.2	67.2	65.3	59.7	57.8
87.5°	22.4	22.4	22.4	22.4	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)