

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: P297366

Luminaire Tested: **D3X-WO-55L82765-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297366
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-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5420.0 lumens
Efficiency: N/A
Efficacy: 140.8 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

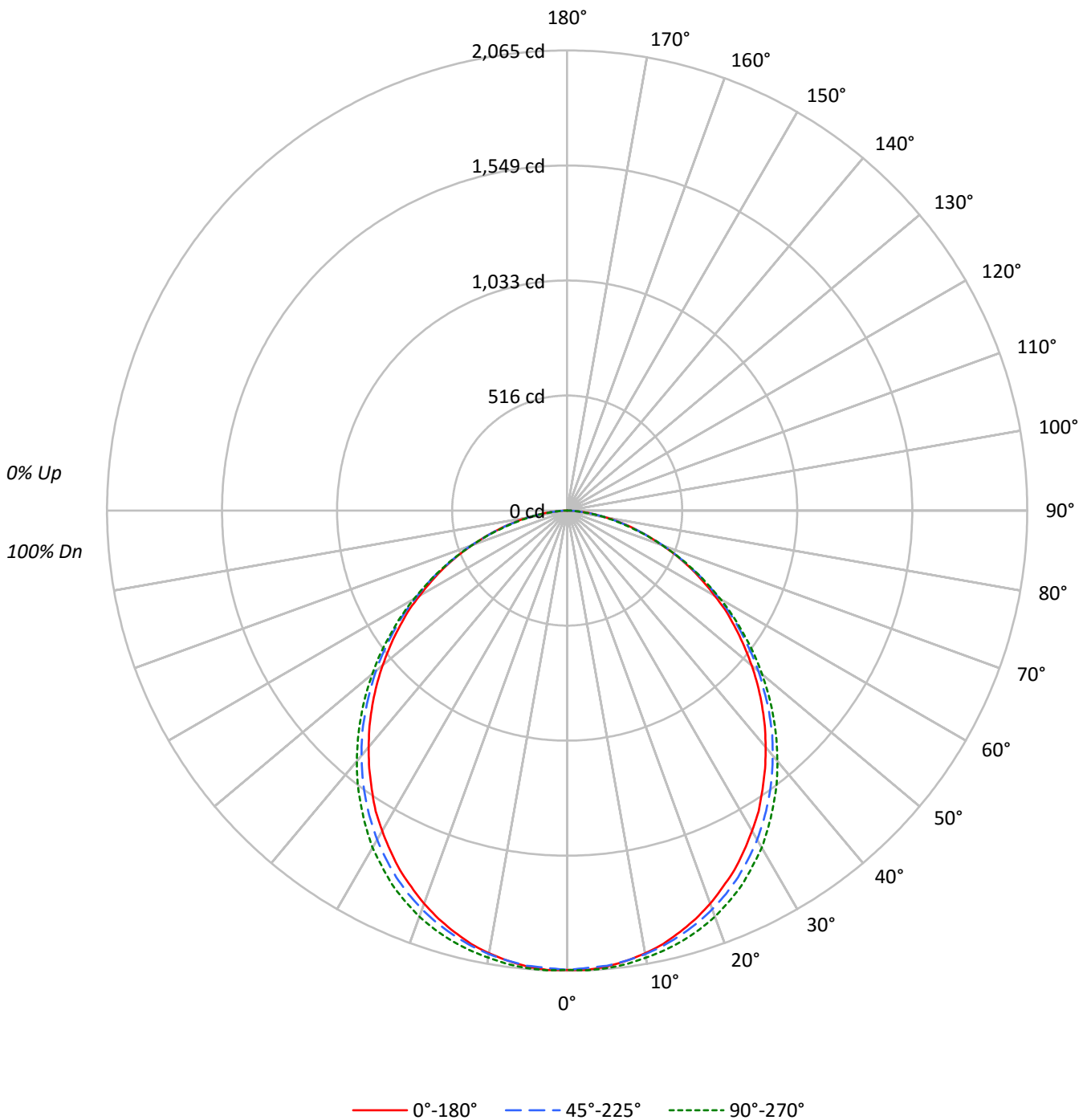
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2773	2773	2773
5°	2774	2769	2784
10°	2756	2761	2784
15°	2726	2747	2785
20°	2687	2727	2776
25°	2640	2694	2754
30°	2579	2649	2715
35°	2510	2591	2651
40°	2434	2521	2578
45°	2352	2439	2491
50°	2263	2346	2389
55°	2167	2236	2270
60°	2059	2113	2137
65°	1941	1970	1982
70°	1781	1803	1781
75°	1604	1594	1547
80°	1358	1344	1302
85°	1014	986	874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.2	3.6
10°-20°	557.5	10.3
20°-30°	835.9	15.4
30°-40°	984.4	18.2
40°-50°	984.6	18.2
50°-60°	849.5	15.7
60°-70°	611.3	11.3
70°-80°	324.2	6.0
80°-90°	77.3	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°	1588.6	29.3
0°-40°	2573.0	47.5
0°-60°	4407.1	81.3
0°-90°	5420.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5420.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2061	2061	2061	2061	2061	
5°	2054	2052	2050	2058	2061	195
15°	1957	1963	1972	1992	1999	552
25°	1778	1789	1815	1846	1855	818
35°	1528	1546	1578	1605	1614	956
45°	1236	1252	1282	1304	1309	954
55°	924	933	953	970	968	827
65°	610	612	619	623	623	603
75°	309	305	307	299	298	328
85°	66	66	64	58	57	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2061.3	2061.3	2061.3	2061.3	2061.3
2.5°	2063.2	2059.5	2054.0	2061.3	2065.0
5°	2054.0	2052.2	2050.4	2057.7	2061.3
7.5°	2037.6	2039.4	2037.6	2048.5	2052.2
10°	2017.5	2019.3	2021.2	2033.9	2037.6
12.5°	1991.9	1993.8	1999.2	2015.7	2021.2
15°	1957.3	1962.7	1971.9	1991.9	1999.2
17.5°	1920.7	1928.0	1940.8	1964.6	1971.9
20°	1876.9	1886.0	1904.3	1929.9	1939.0
22.5°	1827.6	1836.8	1862.3	1889.7	1898.8
25°	1778.3	1789.3	1814.8	1845.9	1855.0
27.5°	1719.9	1734.5	1761.9	1792.9	1800.2
30°	1659.7	1672.4	1705.3	1734.5	1747.3
32.5°	1599.4	1612.2	1643.2	1672.4	1681.6
35°	1528.2	1546.5	1577.5	1604.9	1614.0
37.5°	1458.8	1475.2	1508.1	1535.5	1544.6
40°	1385.8	1400.4	1435.1	1460.6	1467.9
42.5°	1312.7	1327.4	1362.0	1382.1	1389.4
45°	1236.1	1252.5	1281.7	1303.6	1309.1
47.5°	1159.4	1172.2	1199.5	1219.6	1226.9
50°	1080.9	1093.7	1121.0	1137.5	1141.1
52.5°	1002.4	1011.5	1037.1	1051.7	1057.1
55°	923.9	933.0	953.1	969.5	967.7
57.5°	849.0	852.6	872.7	883.7	883.7
60°	765.0	768.7	785.1	792.4	794.2
62.5°	686.5	692.0	704.8	706.6	706.6
65°	609.8	611.6	618.9	622.6	622.6
67.5°	533.1	531.3	538.6	538.6	536.8
70°	452.8	456.4	458.3	454.6	452.8
72.5°	379.8	377.9	377.9	376.1	376.1
75°	308.6	304.9	306.7	299.4	297.6
77.5°	242.8	237.4	235.5	231.9	228.2
80°	175.3	175.3	173.5	169.8	168.0
82.5°	116.9	116.9	115.0	111.4	107.7
85°	65.7	65.7	63.9	58.4	56.6
87.5°	21.9	21.9	21.9	21.9	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)