

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: P297369

Luminaire Tested: **D3X-WO-55L82765-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297369
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-5000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5714.0 lumens
Efficiency: N/A
Efficacy: 145.8 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

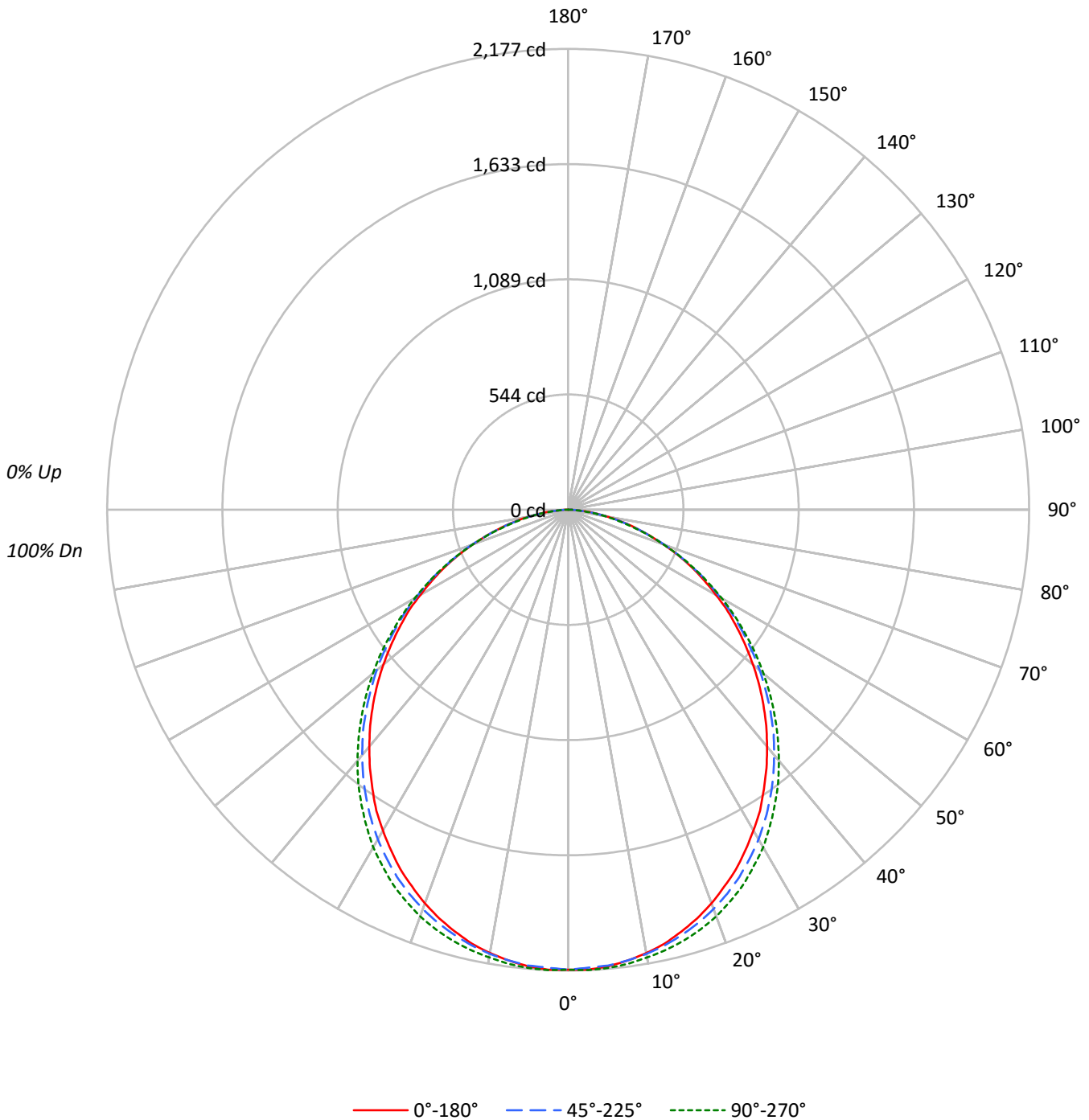
Input Watts (W): 39.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2924	2924	2924
5°	2925	2920	2935
10°	2906	2911	2935
15°	2874	2896	2936
20°	2833	2875	2927
25°	2783	2840	2903
30°	2718	2793	2862
35°	2646	2732	2795
40°	2566	2657	2718
45°	2480	2571	2626
50°	2385	2474	2518
55°	2285	2357	2393
60°	2170	2227	2253
65°	2047	2077	2090
70°	1878	1900	1878
75°	1691	1681	1631
80°	1432	1417	1372
85°	1070	1041	922



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.8	3.6
10°-20°	587.8	10.3
20°-30°	881.3	15.4
30°-40°	1037.8	18.2
40°-50°	1038.0	18.2
50°-60°	895.6	15.7
60°-70°	644.4	11.3
70°-80°	341.8	6.0
80°-90°	81.5	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°	1674.8	29.3
0°-40°	2712.6	47.5
0°-60°	4646.2	81.3
0°-90°	5714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5714.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2173	2173	2173	2173	2173	
5°	2165	2164	2162	2169	2173	205
15°	2063	2069	2079	2100	2108	582
25°	1875	1886	1913	1946	1956	862
35°	1611	1630	1663	1692	1702	1008
45°	1303	1320	1351	1374	1380	1005
55°	974	984	1005	1022	1020	872
65°	643	645	652	656	656	636
75°	325	321	323	316	314	346
85°	69	69	67	62	60	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2173.1	2173.1	2173.1	2173.1	2173.1
2.5°	2175.1	2171.2	2165.4	2173.1	2177.0
5°	2165.4	2163.5	2161.6	2169.3	2173.1
7.5°	2148.1	2150.0	2148.1	2159.7	2163.5
10°	2126.9	2128.9	2130.8	2144.3	2148.1
12.5°	2100.0	2101.9	2107.7	2125.0	2130.8
15°	2063.4	2069.2	2078.8	2100.0	2107.7
17.5°	2024.9	2032.6	2046.1	2071.1	2078.8
20°	1978.7	1988.4	2007.6	2034.6	2044.2
22.5°	1926.8	1936.4	1963.3	1992.2	2001.8
25°	1874.8	1886.3	1913.3	1946.0	1955.6
27.5°	1813.2	1828.6	1857.5	1890.2	1897.9
30°	1749.7	1763.1	1797.8	1828.6	1842.1
32.5°	1686.2	1699.6	1732.4	1763.1	1772.8
35°	1611.1	1630.3	1663.1	1691.9	1701.6
37.5°	1537.9	1555.3	1589.9	1618.8	1628.4
40°	1461.0	1476.3	1512.9	1539.9	1547.6
42.5°	1384.0	1399.4	1435.9	1457.1	1464.8
45°	1303.1	1320.4	1351.2	1374.3	1380.1
47.5°	1222.3	1235.7	1264.6	1285.8	1293.5
50°	1139.5	1153.0	1181.8	1199.2	1203.0
52.5°	1056.7	1066.4	1093.3	1108.7	1114.5
55°	974.0	983.6	1004.8	1022.1	1020.2
57.5°	895.0	898.9	920.1	931.6	931.6
60°	806.5	810.4	827.7	835.4	837.3
62.5°	723.7	729.5	743.0	744.9	744.9
65°	642.9	644.8	652.5	656.4	656.4
67.5°	562.1	560.1	567.8	567.8	565.9
70°	477.4	481.2	483.1	479.3	477.4
72.5°	400.4	398.4	398.4	396.5	396.5
75°	325.3	321.4	323.4	315.7	313.7
77.5°	256.0	250.2	248.3	244.5	240.6
80°	184.8	184.8	182.9	179.0	177.1
82.5°	123.2	123.2	121.3	117.4	113.6
85°	69.3	69.3	67.4	61.6	59.7
87.5°	23.1	23.1	23.1	23.1	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)