

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: P297025

Luminaire Tested: **D3X-WG-67L83050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-67L83050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6298.0 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

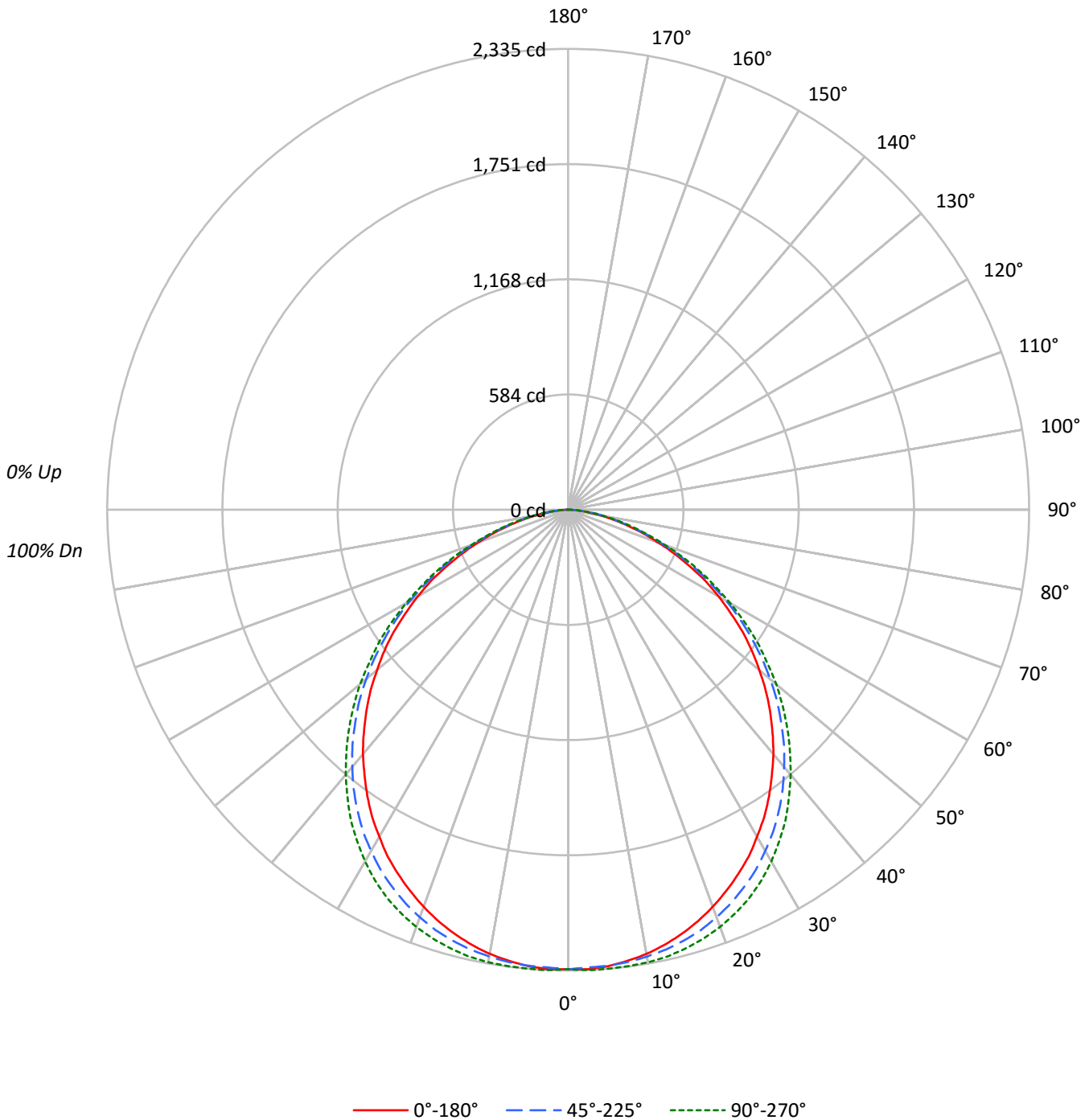
Input Watts (W): 48.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	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	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	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	27	38	32	27	37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3133	3133	3133
5°	3135	3132	3154
10°	3122	3141	3181
15°	3099	3149	3205
20°	3066	3146	3221
25°	3024	3132	3222
30°	2972	3102	3197
35°	2913	3057	3154
40°	2841	2988	3079
45°	2752	2902	2988
50°	2645	2796	2881
55°	2530	2657	2741
60°	2368	2489	2550
65°	2162	2277	2334
70°	1899	1997	2050
75°	1607	1689	1748
80°	1276	1399	1433
85°	871	1045	1010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.2	3.5
10°-20°	638.7	10.1
20°-30°	970.6	15.4
30°-40°	1158.2	18.4
40°-50°	1169.7	18.6
50°-60°	1007.8	16.0
60°-70°	702.5	11.2
70°-80°	348.2	5.5
80°-90°	81.2	1.3
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°	1830.5	29.1
0°-40°	2988.6	47.5
0°-60°	5166.1	82.0
0°-90°	6298.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6298.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2328	2328	2328	2328	2328	
5°	2322	2319	2319	2330	2335	220
15°	2224	2236	2261	2290	2301	627
25°	2037	2064	2109	2152	2170	938
35°	1773	1803	1861	1904	1920	1108
45°	1446	1478	1525	1561	1570	1115
55°	1078	1101	1132	1160	1169	961
65°	679	693	715	722	733	674
75°	309	314	325	332	336	333
85°	56	68	68	63	65	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2328.2	2328.2	2328.2	2328.2	2328.2
2.5°	2330.5	2326.0	2321.5	2330.5	2335.0
5°	2321.5	2319.2	2319.2	2330.5	2335.0
7.5°	2305.7	2305.7	2312.4	2328.2	2332.7
10°	2285.4	2289.9	2298.9	2321.5	2328.2
12.5°	2258.3	2267.3	2283.1	2310.2	2319.2
15°	2224.5	2235.7	2260.6	2289.9	2301.2
17.5°	2186.1	2201.9	2233.5	2267.3	2278.6
20°	2141.0	2161.3	2197.4	2235.7	2249.3
22.5°	2091.4	2116.2	2156.8	2197.4	2213.2
25°	2037.2	2064.3	2109.4	2152.3	2170.3
27.5°	1980.8	2007.9	2057.5	2100.4	2118.4
30°	1913.1	1944.7	1996.6	2041.7	2057.5
32.5°	1847.7	1879.3	1933.4	1974.0	1989.8
35°	1773.3	1802.6	1861.2	1904.1	1919.9
37.5°	1694.3	1728.1	1784.5	1822.9	1836.4
40°	1617.6	1646.9	1701.1	1739.4	1752.9
42.5°	1531.9	1563.4	1617.6	1651.4	1662.7
45°	1446.1	1477.7	1525.1	1561.2	1570.2
47.5°	1358.1	1387.5	1434.8	1464.2	1473.2
50°	1263.4	1290.5	1335.6	1364.9	1376.2
52.5°	1173.1	1198.0	1236.3	1261.1	1267.9
55°	1078.4	1100.9	1132.5	1159.6	1168.6
57.5°	976.9	1001.7	1031.0	1053.6	1060.3
60°	879.9	900.2	925.0	945.3	947.5
62.5°	785.1	794.1	816.7	834.7	837.0
65°	679.1	692.6	715.2	721.9	733.2
67.5°	582.1	591.1	609.1	618.2	627.2
70°	482.8	489.6	507.6	518.9	521.1
72.5°	397.1	399.3	412.9	421.9	424.1
75°	309.1	313.6	324.9	331.6	336.2
77.5°	234.6	239.1	248.2	252.7	252.7
80°	164.7	171.5	180.5	182.7	185.0
82.5°	106.0	115.1	121.8	124.1	119.6
85°	56.4	67.7	67.7	63.2	65.4
87.5°	20.3	24.8	27.1	29.3	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)