

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: P297026

Luminaire Tested: **D3X-WG-67L83050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297026
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-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6613.0 lumens
Efficiency: N/A
Efficacy: 132.8 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

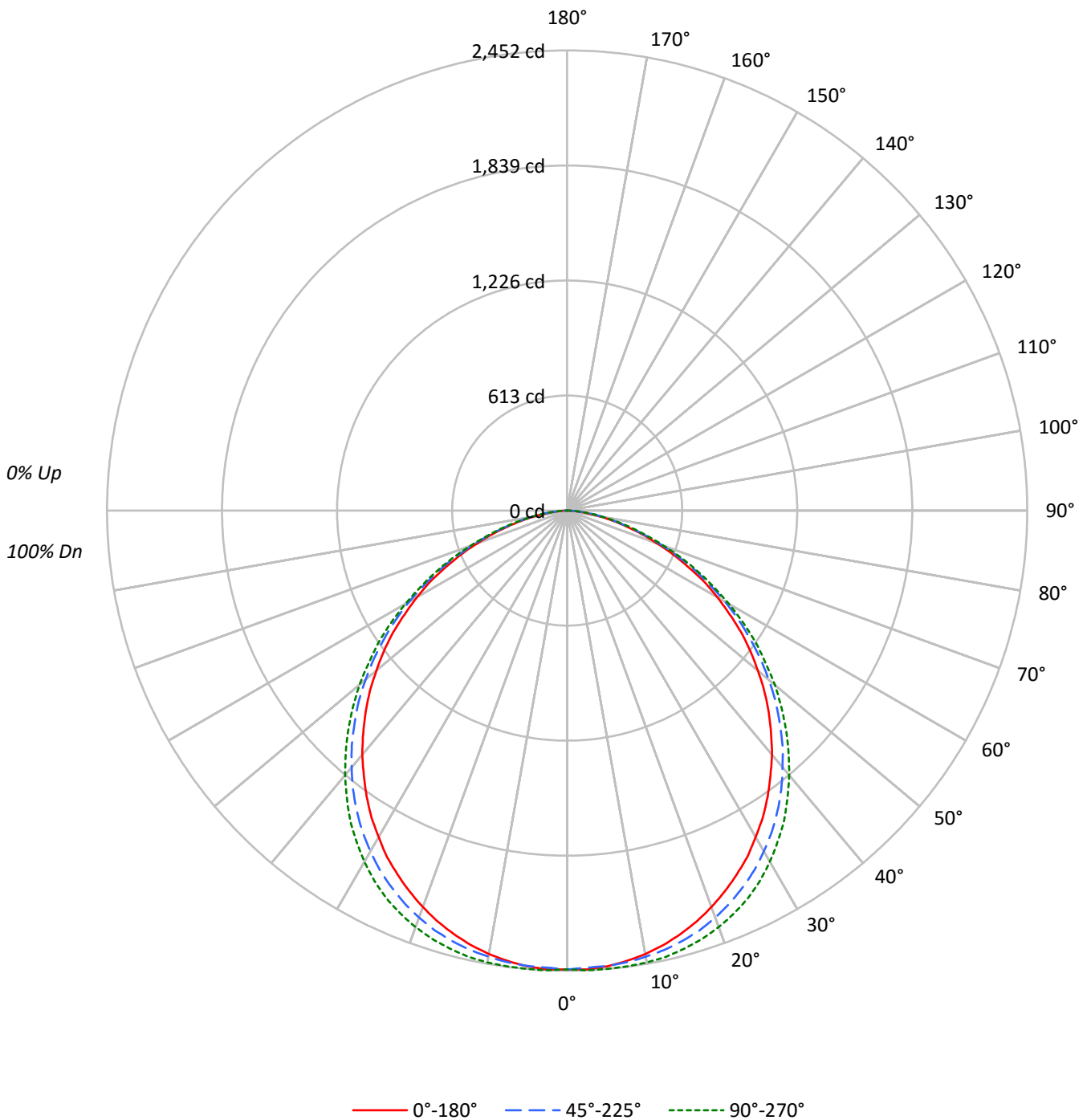
Input Watts (W): 49.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3289	3289	3289
5°	3292	3289	3311
10°	3279	3298	3340
15°	3254	3306	3366
20°	3219	3304	3382
25°	3176	3288	3383
30°	3121	3257	3356
35°	3058	3210	3311
40°	2983	3137	3233
45°	2889	3047	3137
50°	2777	2936	3025
55°	2656	2790	2879
60°	2486	2613	2677
65°	2270	2391	2451
70°	1994	2097	2153
75°	1687	1773	1835
80°	1340	1468	1505
85°	914	1098	1061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.3	3.5
10°-20°	670.6	10.1
20°-30°	1019.1	15.4
30°-40°	1216.1	18.4
40°-50°	1228.2	18.6
50°-60°	1058.2	16.0
60°-70°	737.7	11.2
70°-80°	365.6	5.5
80°-90°	85.2	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°	1922.0	29.1
0°-40°	3138.1	47.5
0°-60°	5424.5	82.0
0°-90°	6613.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6613.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2445	2445	2445	2445	2445	
5°	2438	2435	2435	2447	2452	231
15°	2336	2348	2374	2404	2416	659
25°	2139	2168	2215	2260	2279	985
35°	1862	1893	1954	1999	2016	1164
45°	1518	1552	1601	1639	1649	1170
55°	1132	1156	1189	1218	1227	1009
65°	713	727	751	758	770	708
75°	324	329	341	348	353	350
85°	59	71	71	66	69	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2444.7	2444.7	2444.7	2444.7	2444.7
2.5°	2447.1	2442.3	2437.6	2447.1	2451.8
5°	2437.6	2435.2	2435.2	2447.1	2451.8
7.5°	2421.0	2421.0	2428.1	2444.7	2449.4
10°	2399.7	2404.4	2413.9	2437.6	2444.7
12.5°	2371.3	2380.7	2397.3	2425.7	2435.2
15°	2335.7	2347.6	2373.6	2404.4	2416.3
17.5°	2295.4	2312.0	2345.2	2380.7	2392.6
20°	2248.1	2269.4	2307.3	2347.6	2361.8
22.5°	2196.0	2222.0	2264.7	2307.3	2323.9
25°	2139.1	2167.5	2214.9	2259.9	2278.9
27.5°	2079.9	2108.3	2160.4	2205.4	2224.4
30°	2008.8	2042.0	2096.5	2143.8	2160.4
32.5°	1940.1	1973.3	2030.1	2072.8	2089.4
35°	1861.9	1892.7	1954.3	1999.3	2015.9
37.5°	1779.0	1814.6	1873.8	1914.1	1928.3
40°	1698.5	1729.3	1786.1	1826.4	1840.6
42.5°	1608.5	1641.6	1698.5	1734.0	1745.9
45°	1518.5	1551.6	1601.4	1639.3	1648.7
47.5°	1426.1	1456.9	1506.6	1537.4	1546.9
50°	1326.6	1355.0	1402.4	1433.2	1445.0
52.5°	1231.8	1257.9	1298.1	1324.2	1331.3
55°	1132.3	1156.0	1189.2	1217.6	1227.1
57.5°	1025.7	1051.8	1082.6	1106.3	1113.4
60°	923.9	945.2	971.2	992.6	994.9
62.5°	824.4	833.8	857.5	876.5	878.9
65°	713.0	727.2	750.9	758.0	769.9
67.5°	611.2	620.6	639.6	649.1	658.5
70°	506.9	514.0	533.0	544.8	547.2
72.5°	416.9	419.3	433.5	443.0	445.3
75°	324.5	329.3	341.1	348.2	353.0
77.5°	246.4	251.1	260.6	265.3	265.3
80°	172.9	180.0	189.5	191.9	194.2
82.5°	111.3	120.8	127.9	130.3	125.6
85°	59.2	71.1	71.1	66.3	68.7
87.5°	21.3	26.1	28.4	30.8	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)