

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: P297115

Luminaire Tested: **D3X-WG-74L82765-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297115
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-74L82765-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7102.0 lumens
Efficiency: N/A
Efficacy: 126.6 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

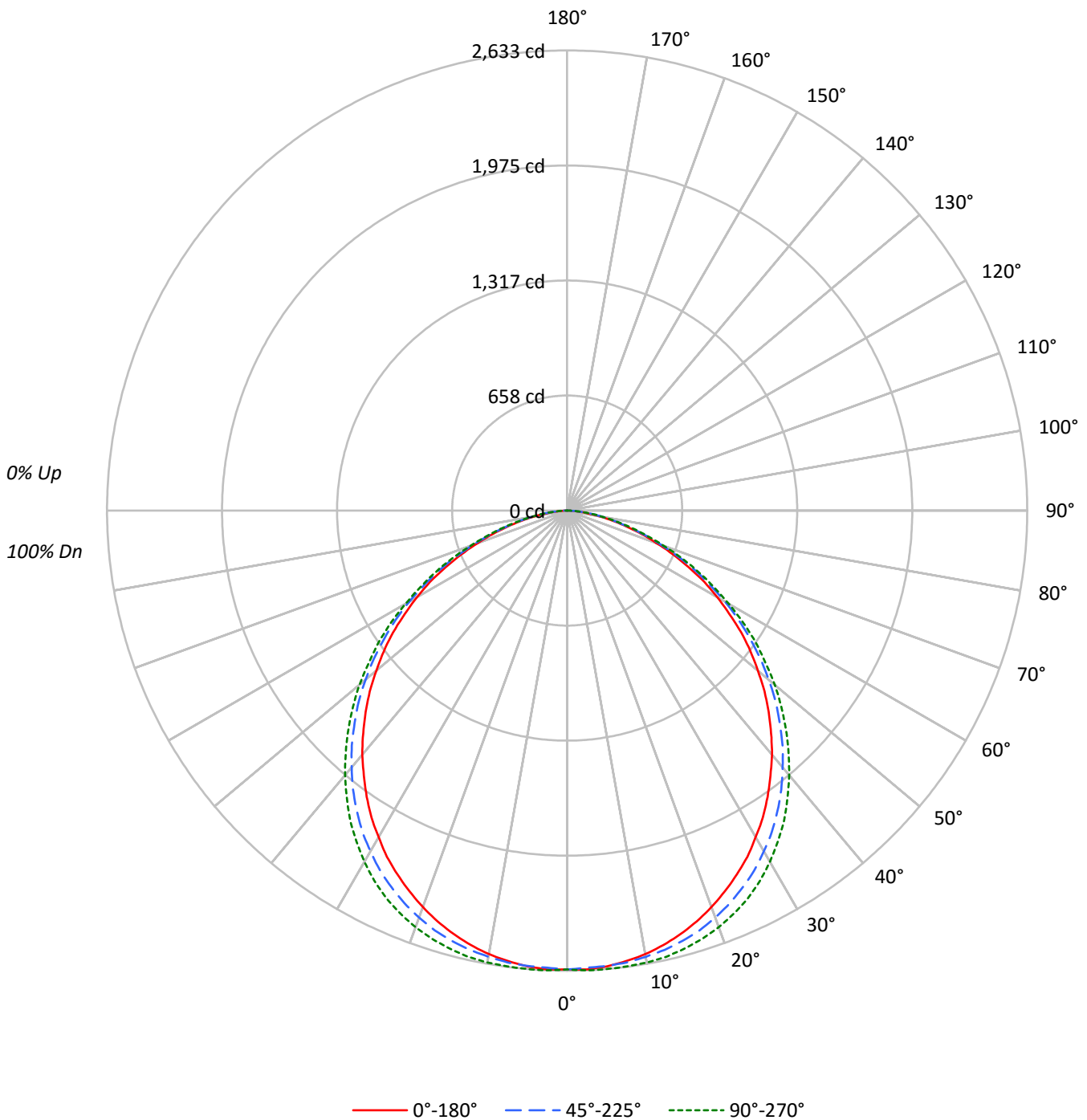
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3533	3533	3533
5°	3536	3532	3556
10°	3521	3542	3587
15°	3494	3551	3615
20°	3457	3548	3632
25°	3411	3531	3633
30°	3352	3498	3605
35°	3284	3447	3556
40°	3204	3369	3472
45°	3103	3272	3369
50°	2982	3153	3248
55°	2853	2996	3091
60°	2670	2807	2875
65°	2438	2568	2632
70°	2142	2252	2312
75°	1812	1904	1971
80°	1439	1577	1616
85°	982	1178	1139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.5	3.5
10°-20°	720.2	10.1
20°-30°	1094.5	15.4
30°-40°	1306.0	18.4
40°-50°	1319.0	18.6
50°-60°	1136.4	16.0
60°-70°	792.2	11.2
70°-80°	392.6	5.5
80°-90°	91.5	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°	2064.2	29.1
0°-40°	3370.2	47.5
0°-60°	5825.7	82.0
0°-90°	7102.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7102.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2626	2626	2626	2626	2626	
5°	2618	2615	2615	2628	2633	249
15°	2508	2521	2549	2582	2595	707
25°	2297	2328	2379	2427	2447	1058
35°	2000	2033	2099	2147	2165	1250
45°	1631	1666	1720	1760	1771	1257
55°	1216	1242	1277	1308	1318	1084
65°	766	781	806	814	827	760
75°	348	354	366	374	379	376
85°	64	76	76	71	74	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2625.5	2625.5	2625.5	2625.5	2625.5
2.5°	2628.0	2622.9	2617.8	2628.0	2633.1
5°	2617.8	2615.3	2615.3	2628.0	2633.1
7.5°	2600.0	2600.0	2607.7	2625.5	2630.5
10°	2577.1	2582.2	2592.4	2617.8	2625.5
12.5°	2546.6	2556.8	2574.6	2605.1	2615.3
15°	2508.4	2521.2	2549.1	2582.2	2594.9
17.5°	2465.2	2483.0	2518.6	2556.8	2569.5
20°	2414.3	2437.2	2477.9	2521.2	2536.4
22.5°	2358.3	2386.3	2432.1	2477.9	2495.7
25°	2297.3	2327.8	2378.7	2427.0	2447.4
27.5°	2233.7	2264.2	2320.2	2368.5	2388.9
30°	2157.4	2193.0	2251.5	2302.4	2320.2
32.5°	2083.6	2119.2	2180.3	2226.0	2243.9
35°	1999.6	2032.7	2098.8	2147.2	2165.0
37.5°	1910.6	1948.7	2012.3	2055.6	2070.9
40°	1824.1	1857.2	1918.2	1961.5	1976.7
42.5°	1727.4	1763.0	1824.1	1862.2	1875.0
45°	1630.7	1666.4	1719.8	1760.5	1770.7
47.5°	1531.5	1564.6	1618.0	1651.1	1661.3
50°	1424.7	1455.2	1506.1	1539.1	1551.9
52.5°	1322.9	1350.9	1394.1	1422.1	1429.8
55°	1216.1	1241.5	1277.1	1307.6	1317.8
57.5°	1101.6	1129.6	1162.6	1188.1	1195.7
60°	992.2	1015.1	1043.1	1066.0	1068.5
62.5°	885.3	895.5	920.9	941.3	943.8
65°	765.8	781.0	806.5	814.1	826.8
67.5°	656.4	666.5	686.9	697.1	707.2
70°	544.4	552.1	572.4	585.1	587.7
72.5°	447.8	450.3	465.6	475.7	478.3
75°	348.5	353.6	366.3	374.0	379.1
77.5°	264.6	269.7	279.8	284.9	284.9
80°	185.7	193.3	203.5	206.1	208.6
82.5°	119.6	129.7	137.4	139.9	134.8
85°	63.6	76.3	76.3	71.2	73.8
87.5°	22.9	28.0	30.5	33.1	33.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)