

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: P297394

Luminaire Tested: **D3X-WO-74L82765-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297394
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-74L82765-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7421.0 lumens
Efficiency: N/A
Efficacy: 133.2 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

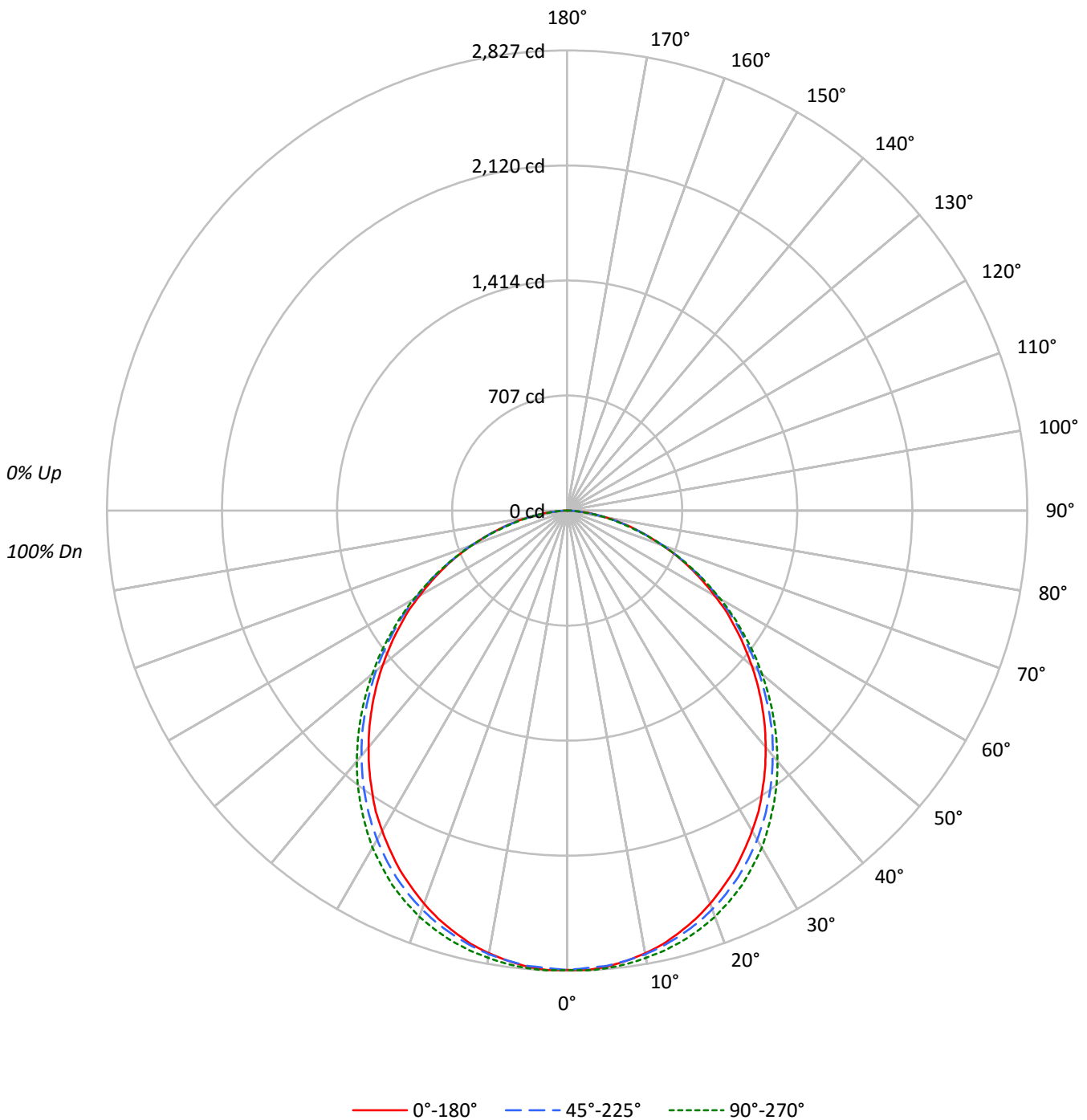
Input Watts (W): 55.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3797	3797	3797
5°	3798	3792	3812
10°	3774	3781	3812
15°	3733	3761	3813
20°	3680	3733	3801
25°	3615	3689	3771
30°	3530	3628	3717
35°	3437	3548	3630
40°	3333	3451	3530
45°	3220	3339	3411
50°	3098	3213	3270
55°	2967	3061	3108
60°	2819	2893	2926
65°	2658	2698	2714
70°	2439	2469	2439
75°	2196	2183	2118
80°	1860	1840	1782
85°	1389	1351	1196



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.2	3.6
10°-20°	763.4	10.3
20°-30°	1144.5	15.4
30°-40°	1347.9	18.2
40°-50°	1348.1	18.2
50°-60°	1163.1	15.7
60°-70°	837.0	11.3
70°-80°	444.0	6.0
80°-90°	105.9	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°	2175.1	29.3
0°-40°	3523.0	47.5
0°-60°	6034.2	81.3
0°-90°	7421.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7421.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2822	2822	2822	2822	2822	
5°	2812	2810	2807	2817	2822	267
15°	2680	2687	2700	2727	2737	756
25°	2435	2450	2485	2527	2540	1120
35°	2092	2117	2160	2197	2210	1309
45°	1692	1715	1755	1785	1792	1306
55°	1265	1277	1305	1327	1325	1132
65°	835	838	848	852	852	826
75°	422	418	420	410	408	449
85°	90	90	88	80	78	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2822.3	2822.3	2822.3	2822.3	2822.3
2.5°	2824.8	2819.8	2812.3	2822.3	2827.3
5°	2812.3	2809.8	2807.3	2817.3	2822.3
7.5°	2789.8	2792.3	2789.8	2804.8	2809.8
10°	2762.3	2764.8	2767.3	2784.8	2789.8
12.5°	2727.3	2729.8	2737.3	2759.8	2767.3
15°	2679.9	2687.4	2699.9	2727.3	2737.3
17.5°	2629.9	2639.9	2657.4	2689.9	2699.9
20°	2569.9	2582.4	2607.4	2642.4	2654.9
22.5°	2502.4	2514.9	2549.9	2587.4	2599.9
25°	2434.9	2449.9	2484.9	2527.4	2539.9
27.5°	2354.9	2374.9	2412.4	2454.9	2464.9
30°	2272.4	2289.9	2334.9	2374.9	2392.4
32.5°	2189.9	2207.4	2249.9	2289.9	2302.4
35°	2092.4	2117.4	2159.9	2197.4	2209.9
37.5°	1997.4	2019.9	2064.9	2102.4	2114.9
40°	1897.4	1917.4	1964.9	1999.9	2009.9
42.5°	1797.4	1817.4	1864.9	1892.4	1902.4
45°	1692.4	1714.9	1754.9	1784.9	1792.4
47.5°	1587.4	1604.9	1642.4	1669.9	1679.9
50°	1479.9	1497.4	1534.9	1557.4	1562.4
52.5°	1372.4	1384.9	1419.9	1439.9	1447.4
55°	1264.9	1277.4	1304.9	1327.4	1324.9
57.5°	1162.4	1167.4	1194.9	1209.9	1209.9
60°	1047.4	1052.4	1074.9	1084.9	1087.4
62.5°	939.9	947.4	964.9	967.4	967.4
65°	835.0	837.5	847.5	852.5	852.5
67.5°	730.0	727.5	737.5	737.5	735.0
70°	620.0	625.0	627.5	622.5	620.0
72.5°	520.0	517.5	517.5	515.0	515.0
75°	422.5	417.5	420.0	410.0	407.5
77.5°	332.5	325.0	322.5	317.5	312.5
80°	240.0	240.0	237.5	232.5	230.0
82.5°	160.0	160.0	157.5	152.5	147.5
85°	90.0	90.0	87.5	80.0	77.5
87.5°	30.0	30.0	30.0	30.0	30.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)