

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: P297315

Luminaire Tested: **D3X-WO-80L83050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297315
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-80L83050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8063.0 lumens
Efficiency: N/A
Efficacy: 132.8 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

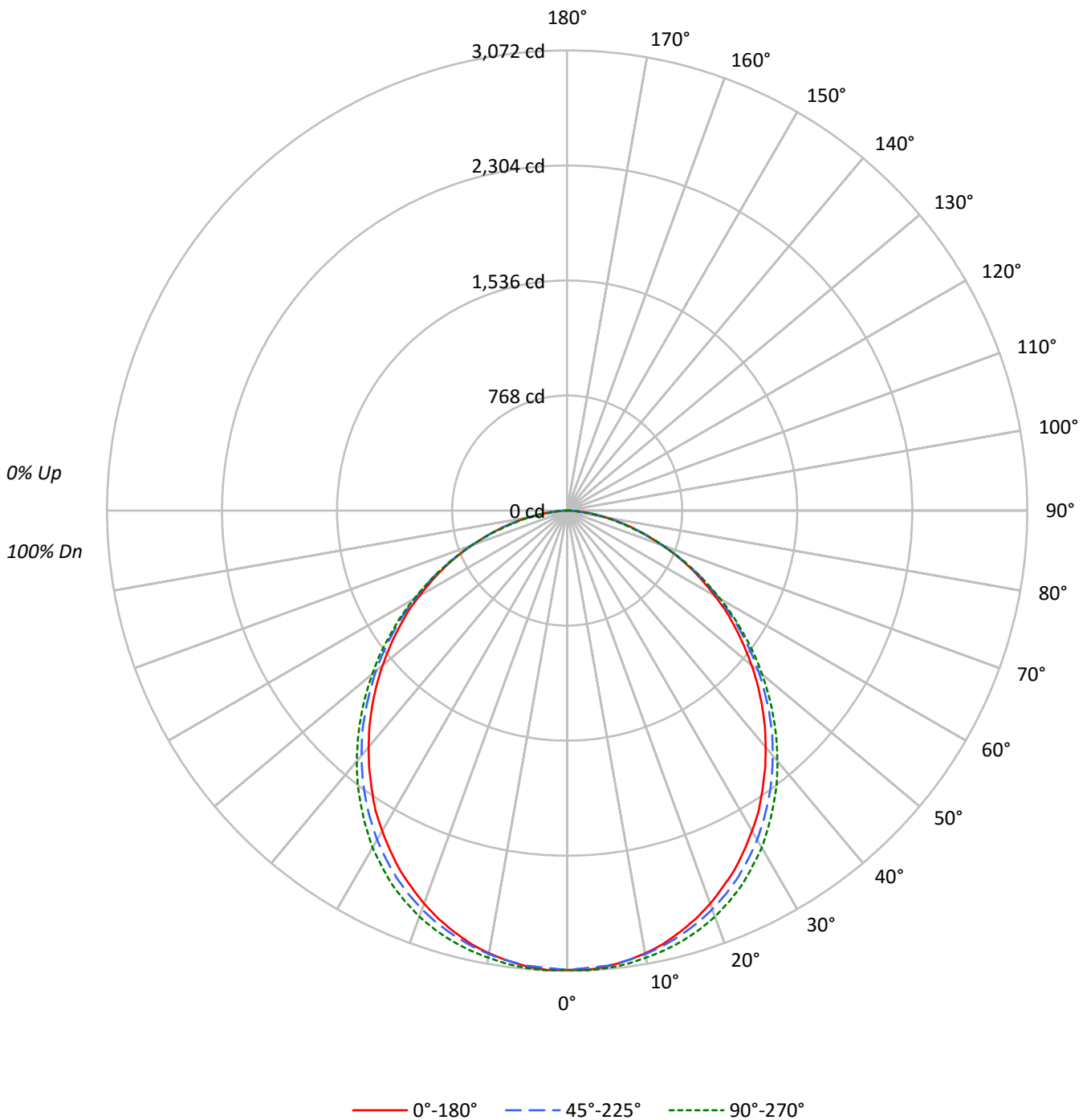
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4126	4126	4126
5°	4127	4120	4142
10°	4101	4108	4141
15°	4056	4086	4143
20°	3998	4056	4130
25°	3927	4008	4097
30°	3836	3941	4038
35°	3734	3855	3944
40°	3621	3750	3836
45°	3499	3628	3706
50°	3366	3491	3553
55°	3224	3326	3377
60°	3063	3143	3179
65°	2888	2932	2949
70°	2650	2682	2650
75°	2386	2372	2301
80°	2020	1999	1936
85°	1510	1468	1300



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.3	3.6
10°-20°	829.4	10.3
20°-30°	1243.5	15.4
30°-40°	1464.5	18.2
40°-50°	1464.7	18.2
50°-60°	1263.8	15.7
60°-70°	909.4	11.3
70°-80°	482.3	6.0
80°-90°	115.0	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°	2363.3	29.3
0°-40°	3827.7	47.5
0°-60°	6556.2	81.3
0°-90°	8063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8063.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3066	3066	3066	3066	3066	
5°	3056	3053	3050	3061	3066	290
15°	2912	2920	2933	2963	2974	821
25°	2646	2662	2700	2746	2760	1217
35°	2273	2301	2347	2388	2401	1422
45°	1839	1863	1907	1939	1948	1418
55°	1374	1388	1418	1442	1440	1230
65°	907	910	921	926	926	897
75°	459	454	456	445	443	488
85°	98	98	95	87	84	118
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3066.5	3066.5	3066.5	3066.5	3066.5
2.5°	3069.2	3063.8	3055.6	3066.5	3071.9
5°	3055.6	3052.9	3050.2	3061.1	3066.5
7.5°	3031.2	3033.9	3031.2	3047.5	3052.9
10°	3001.3	3004.0	3006.8	3025.8	3031.2
12.5°	2963.3	2966.0	2974.2	2998.6	3006.8
15°	2911.7	2919.8	2933.4	2963.3	2974.2
17.5°	2857.4	2868.2	2887.2	2922.6	2933.4
20°	2792.2	2805.8	2832.9	2870.9	2884.5
22.5°	2718.8	2732.4	2770.4	2811.2	2824.8
25°	2645.5	2661.8	2699.8	2746.0	2759.6
27.5°	2558.6	2580.3	2621.1	2667.2	2678.1
30°	2469.0	2488.0	2536.9	2580.3	2599.3
32.5°	2379.3	2398.3	2444.5	2488.0	2501.6
35°	2273.4	2300.6	2346.7	2387.5	2401.1
37.5°	2170.2	2194.6	2243.5	2284.3	2297.8
40°	2061.5	2083.3	2134.9	2172.9	2183.8
42.5°	1952.9	1974.6	2026.2	2056.1	2067.0
45°	1838.8	1863.3	1906.7	1939.3	1947.5
47.5°	1724.7	1743.8	1784.5	1814.4	1825.2
50°	1607.9	1627.0	1667.7	1692.1	1697.6
52.5°	1491.2	1504.7	1542.8	1564.5	1572.6
55°	1374.4	1387.9	1417.8	1442.3	1439.5
57.5°	1263.0	1268.4	1298.3	1314.6	1314.6
60°	1138.1	1143.5	1167.9	1178.8	1181.5
62.5°	1021.3	1029.4	1048.4	1051.1	1051.1
65°	907.2	909.9	920.8	926.2	926.2
67.5°	793.1	790.4	801.3	801.3	798.5
70°	673.6	679.0	681.7	676.3	673.6
72.5°	565.0	562.2	562.2	559.5	559.5
75°	459.0	453.6	456.3	445.4	442.7
77.5°	361.2	353.1	350.4	344.9	339.5
80°	260.7	260.7	258.0	252.6	249.9
82.5°	173.8	173.8	171.1	165.7	160.3
85°	97.8	97.8	95.1	86.9	84.2
87.5°	32.6	32.6	32.6	32.6	32.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)