

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: P297314

Luminaire Tested: **D3X-WO-80L83050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297314
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-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7620.0 lumens
Efficiency: N/A
Efficacy: 125.7 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

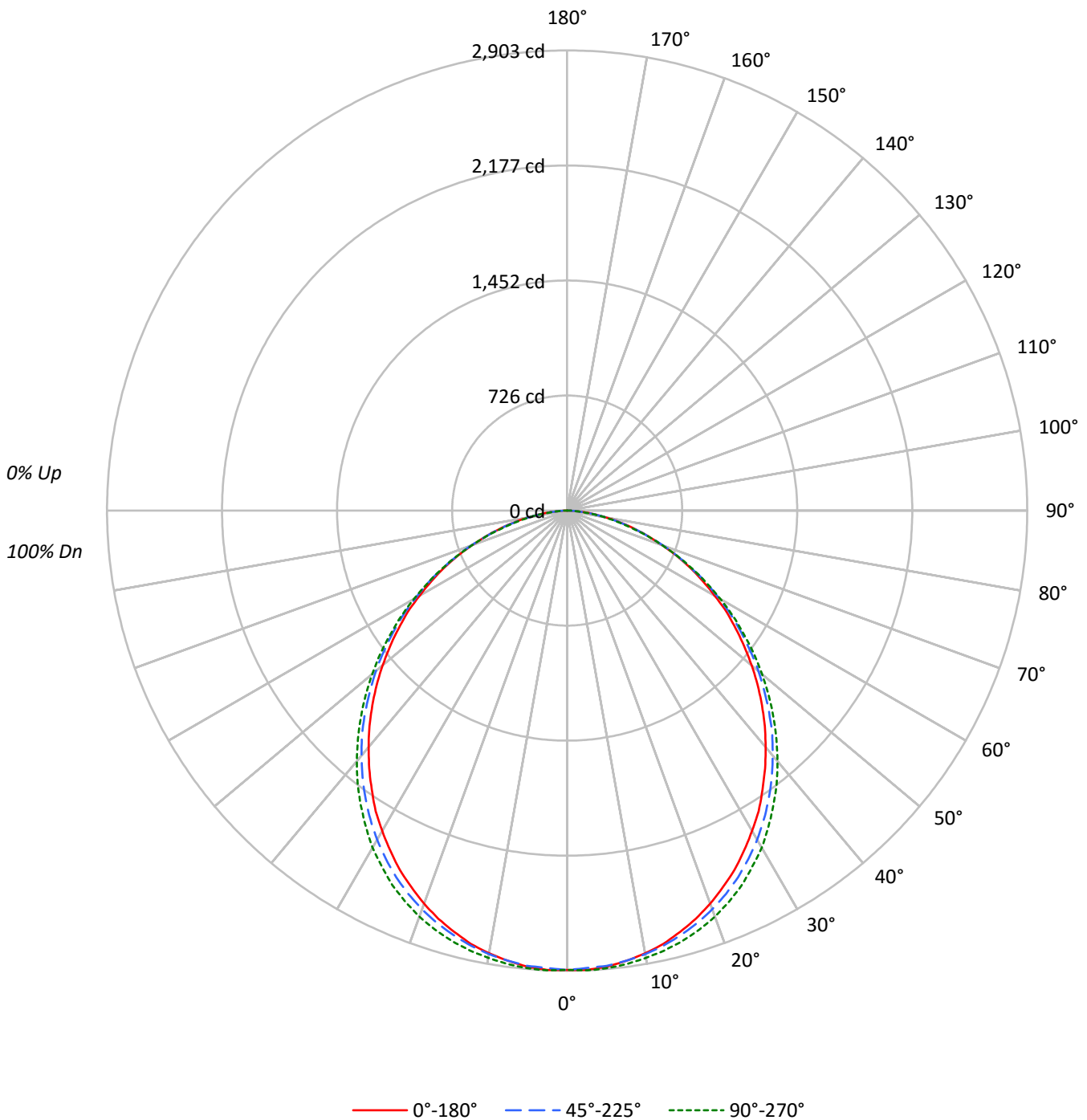
Input Watts (W): 60.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3899	3899	3899
5°	3900	3893	3914
10°	3875	3882	3914
15°	3833	3862	3915
20°	3778	3833	3903
25°	3712	3788	3872
30°	3625	3725	3817
35°	3529	3643	3727
40°	3422	3544	3625
45°	3307	3429	3502
50°	3181	3299	3358
55°	3047	3143	3191
60°	2894	2970	3005
65°	2729	2770	2787
70°	2504	2535	2504
75°	2255	2242	2175
80°	1909	1890	1830
85°	1426	1386	1229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.4	3.6
10°-20°	783.8	10.3
20°-30°	1175.2	15.4
30°-40°	1384.0	18.2
40°-50°	1384.2	18.2
50°-60°	1194.4	15.7
60°-70°	859.4	11.3
70°-80°	455.9	6.0
80°-90°	108.7	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°	2233.4	29.3
0°-40°	3617.4	47.5
0°-60°	6196.0	81.3
0°-90°	7620.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7620.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2898	2898	2898	2898	2898	
5°	2888	2885	2883	2893	2898	274
15°	2752	2759	2772	2800	2811	776
25°	2500	2516	2552	2595	2608	1150
35°	2148	2174	2218	2256	2269	1344
45°	1738	1761	1802	1833	1840	1341
55°	1299	1312	1340	1363	1360	1162
65°	857	860	870	875	875	848
75°	434	429	431	421	418	461
85°	92	92	90	82	80	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2898.0	2898.0	2898.0	2898.0	2898.0
2.5°	2900.6	2895.5	2887.8	2898.0	2903.2
5°	2887.8	2885.2	2882.6	2892.9	2898.0
7.5°	2864.7	2867.2	2864.7	2880.1	2885.2
10°	2836.4	2839.0	2841.6	2859.5	2864.7
12.5°	2800.5	2803.1	2810.8	2833.9	2841.6
15°	2751.7	2759.4	2772.2	2800.5	2810.8
17.5°	2700.4	2710.6	2728.6	2762.0	2772.2
20°	2638.8	2651.6	2677.3	2713.2	2726.0
22.5°	2569.5	2582.3	2618.2	2656.7	2669.6
25°	2500.2	2515.6	2551.5	2595.1	2608.0
27.5°	2418.0	2438.6	2477.1	2520.7	2531.0
30°	2333.3	2351.3	2397.5	2438.6	2456.5
32.5°	2248.6	2266.6	2310.2	2351.3	2364.1
35°	2148.5	2174.2	2217.8	2256.3	2269.1
37.5°	2051.0	2074.1	2120.3	2158.8	2171.6
40°	1948.3	1968.8	2017.6	2053.5	2063.8
42.5°	1845.6	1866.1	1914.9	1943.1	1953.4
45°	1737.8	1760.9	1802.0	1832.8	1840.5
47.5°	1630.0	1647.9	1686.5	1714.7	1725.0
50°	1519.6	1537.6	1576.1	1599.2	1604.3
52.5°	1409.2	1422.1	1458.0	1478.5	1486.2
55°	1298.8	1311.7	1339.9	1363.0	1360.5
57.5°	1193.6	1198.7	1227.0	1242.4	1242.4
60°	1075.5	1080.7	1103.8	1114.0	1116.6
62.5°	965.2	972.9	990.8	993.4	993.4
65°	857.3	859.9	870.2	875.3	875.3
67.5°	749.5	747.0	757.2	757.2	754.7
70°	636.6	641.7	644.3	639.2	636.6
72.5°	533.9	531.3	531.3	528.8	528.8
75°	433.8	428.7	431.2	421.0	418.4
77.5°	341.4	333.7	331.1	326.0	320.9
80°	246.4	246.4	243.9	238.7	236.2
82.5°	164.3	164.3	161.7	156.6	151.4
85°	92.4	92.4	89.8	82.1	79.6
87.5°	30.8	30.8	30.8	30.8	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)