

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: P297038

Luminaire Tested: **D3X-WG-80L83050-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297038
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-80L83050-LD5-UNV-24-T1-W2A-5000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8037.0 lumens
Efficiency: N/A
Efficacy: 126.2 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

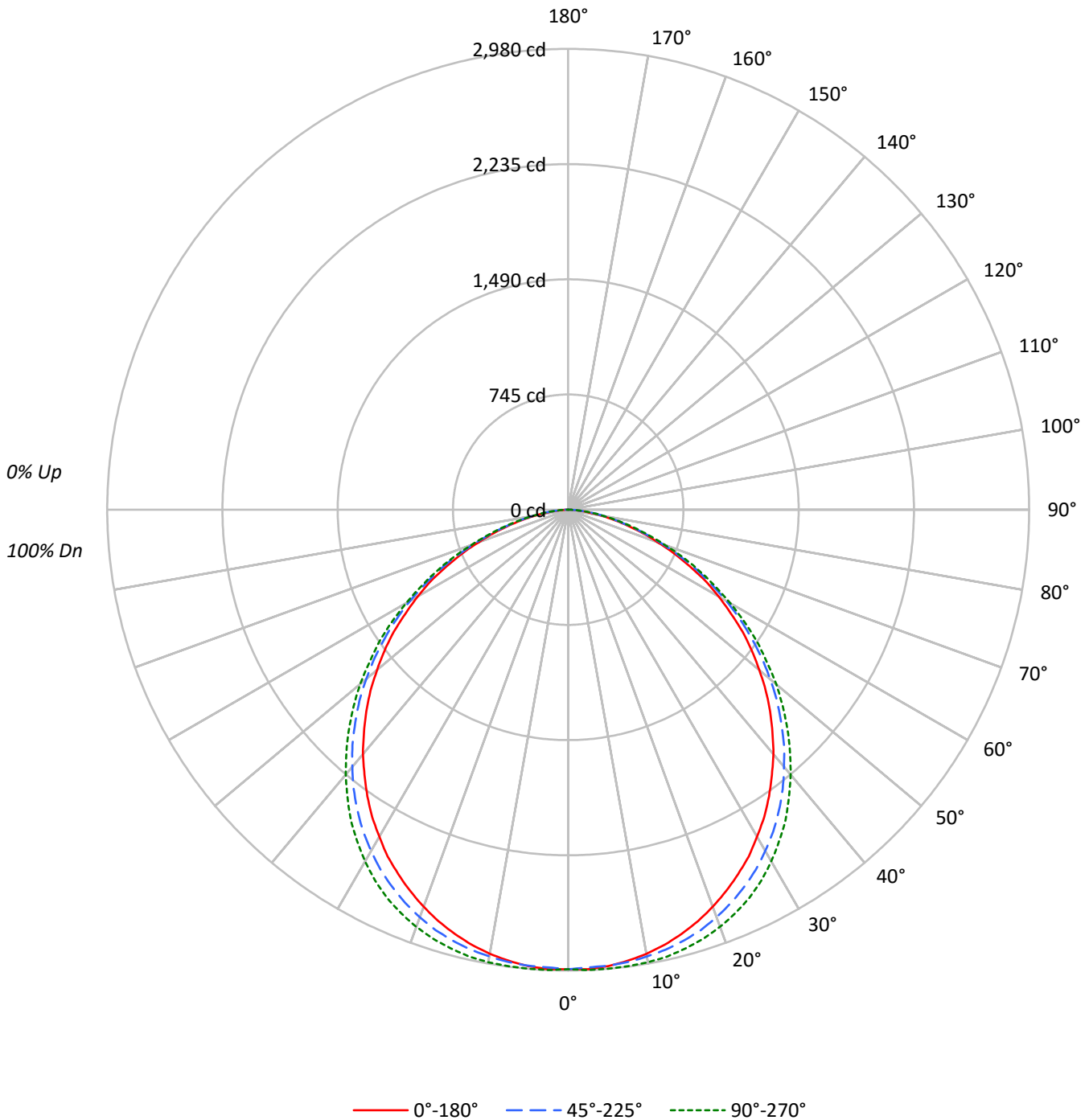
Input Watts (W): 63.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3998	3998	3998
5°	4001	3997	4024
10°	3985	4008	4059
15°	3954	4018	4091
20°	3912	4015	4110
25°	3859	3996	4112
30°	3793	3959	4079
35°	3717	3901	4024
40°	3626	3813	3929
45°	3511	3703	3813
50°	3375	3568	3676
55°	3228	3390	3498
60°	3021	3176	3254
65°	2759	2905	2979
70°	2424	2548	2616
75°	2050	2155	2230
80°	1629	1784	1829
85°	1112	1334	1289



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.3	3.5
10°-20°	815.0	10.1
20°-30°	1238.6	15.4
30°-40°	1478.0	18.4
40°-50°	1492.7	18.6
50°-60°	1286.0	16.0
60°-70°	896.5	11.2
70°-80°	444.3	5.5
80°-90°	103.6	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°	2335.9	29.1
0°-40°	3813.9	47.5
0°-60°	6592.6	82.0
0°-90°	8037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8037.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2971	2971	2971	2971	2971	
5°	2962	2960	2960	2974	2980	281
15°	2839	2853	2885	2922	2937	801
25°	2600	2634	2692	2746	2770	1198
35°	2263	2300	2375	2430	2450	1414
45°	1845	1886	1946	1992	2004	1422
55°	1376	1405	1445	1480	1491	1227
65°	867	884	913	921	936	861
75°	394	400	415	423	429	425
85°	72	86	86	81	84	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2971.1	2971.1	2971.1	2971.1	2971.1
2.5°	2974.0	2968.2	2962.5	2974.0	2979.7
5°	2962.5	2959.6	2959.6	2974.0	2979.7
7.5°	2942.3	2942.3	2951.0	2971.1	2976.9
10°	2916.4	2922.2	2933.7	2962.5	2971.1
12.5°	2881.9	2893.4	2913.5	2948.1	2959.6
15°	2838.7	2853.1	2884.7	2922.2	2936.6
17.5°	2789.7	2809.9	2850.2	2893.4	2907.8
20°	2732.2	2758.1	2804.1	2853.1	2870.3
22.5°	2668.8	2700.5	2752.3	2804.1	2824.3
25°	2599.7	2634.3	2691.8	2746.5	2769.6
27.5°	2527.7	2562.3	2625.6	2680.3	2703.4
30°	2441.4	2481.7	2547.9	2605.5	2625.6
32.5°	2357.9	2398.2	2467.3	2519.1	2539.3
35°	2262.9	2300.3	2375.2	2429.9	2450.0
37.5°	2162.1	2205.3	2277.3	2326.2	2343.5
40°	2064.2	2101.7	2170.8	2219.7	2237.0
42.5°	1954.8	1995.1	2064.2	2107.4	2121.8
45°	1845.4	1885.7	1946.2	1992.3	2003.8
47.5°	1733.1	1770.6	1831.0	1868.5	1880.0
50°	1612.2	1646.8	1704.4	1741.8	1756.2
52.5°	1497.1	1528.7	1577.7	1609.4	1618.0
55°	1376.2	1404.9	1445.2	1479.8	1491.3
57.5°	1246.6	1278.3	1315.7	1344.5	1353.1
60°	1122.8	1148.7	1180.4	1206.3	1209.2
62.5°	1001.9	1013.4	1042.2	1065.2	1068.1
65°	866.6	883.8	912.6	921.3	935.7
67.5°	742.8	754.3	777.3	788.8	800.4
70°	616.1	624.7	647.8	662.2	665.0
72.5°	506.7	509.6	526.9	538.4	541.2
75°	394.4	400.2	414.6	423.2	429.0
77.5°	299.4	305.2	316.7	322.4	322.4
80°	210.2	218.8	230.3	233.2	236.1
82.5°	135.3	146.8	155.5	158.3	152.6
85°	72.0	86.4	86.4	80.6	83.5
87.5°	25.9	31.7	34.5	37.4	37.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)