

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: P296755

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-80L83050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7569.0 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

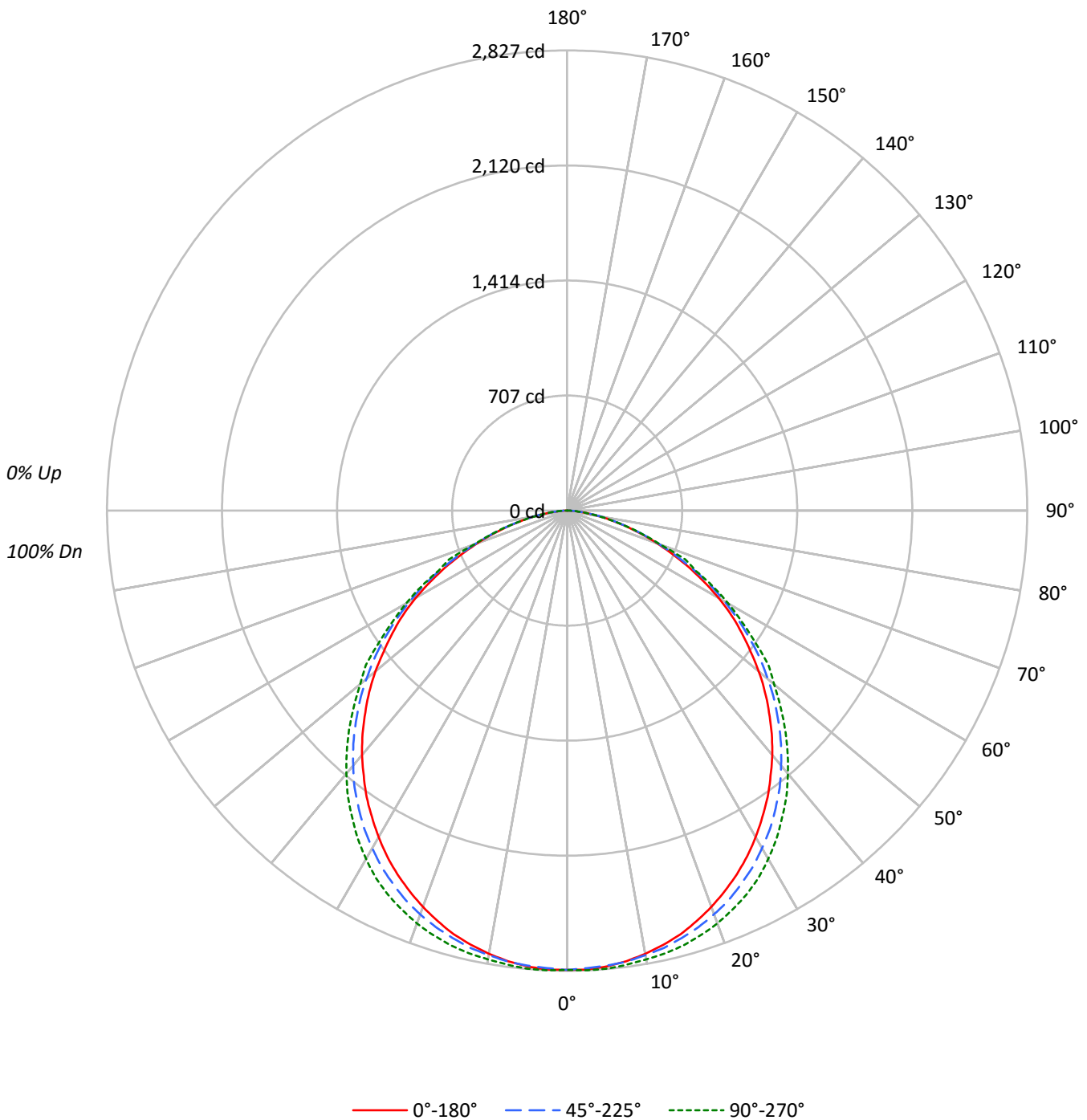
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
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	48	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	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3797	3797	3797
5°	3796	3789	3815
10°	3777	3788	3825
15°	3753	3787	3851
20°	3710	3780	3865
25°	3661	3758	3866
30°	3599	3721	3840
35°	3529	3667	3783
40°	3444	3592	3706
45°	3338	3493	3602
50°	3217	3371	3473
55°	3071	3211	3306
60°	2894	3004	3077
65°	2628	2715	2767
70°	2308	2361	2393
75°	1948	1976	1991
80°	1557	1578	1537
85°	1048	1090	1048



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.4	3.5
10°-20°	769.0	10.2
20°-30°	1166.8	15.4
30°-40°	1393.0	18.4
40°-50°	1410.3	18.6
50°-60°	1219.0	16.1
60°-70°	844.9	11.2
70°-80°	408.8	5.4
80°-90°	89.9	1.2
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°	2203.2	29.1
0°-40°	3596.2	47.5
0°-60°	6225.5	82.2
0°-90°	7569.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7569.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2822	2822	2822	2822	2822	
5°	2811	2808	2805	2819	2824	267
15°	2694	2700	2718	2751	2765	759
25°	2466	2482	2531	2583	2604	1136
35°	2148	2167	2232	2289	2303	1342
45°	1754	1779	1836	1882	1893	1353
55°	1309	1323	1369	1426	1410	1170
65°	826	834	853	866	869	817
75°	375	378	380	378	383	402
85°	68	73	71	68	68	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2821.7	2821.7	2821.7	2821.7	2821.7
2.5°	2821.7	2819.0	2813.5	2821.7	2827.1
5°	2810.8	2808.1	2805.4	2819.0	2824.4
7.5°	2791.8	2791.8	2794.5	2808.1	2813.5
10°	2764.6	2767.4	2772.8	2794.5	2799.9
12.5°	2732.0	2737.5	2751.1	2775.5	2786.4
15°	2694.0	2699.5	2718.5	2751.1	2764.6
17.5°	2645.1	2656.0	2683.2	2721.2	2734.8
20°	2590.8	2604.4	2639.7	2683.2	2699.5
22.5°	2531.1	2544.7	2590.8	2637.0	2653.3
25°	2465.9	2482.2	2531.1	2582.7	2604.4
27.5°	2395.3	2414.3	2468.6	2522.9	2544.7
30°	2316.5	2338.3	2395.3	2452.3	2471.3
32.5°	2232.4	2254.1	2319.3	2373.6	2392.6
35°	2148.2	2167.2	2232.4	2289.4	2303.0
37.5°	2053.1	2074.8	2145.4	2194.3	2213.3
40°	1960.8	1982.5	2045.0	2093.8	2110.1
42.5°	1860.3	1882.0	1944.5	1990.6	2004.2
45°	1754.4	1778.8	1835.9	1882.0	1892.9
47.5°	1648.5	1667.5	1727.2	1768.0	1776.1
50°	1537.1	1556.1	1610.4	1651.2	1659.3
52.5°	1420.3	1450.2	1493.7	1523.5	1558.8
55°	1309.0	1322.6	1368.7	1425.8	1409.5
57.5°	1197.6	1205.8	1243.8	1268.3	1273.7
60°	1075.4	1086.3	1116.2	1129.8	1143.3
62.5°	947.8	955.9	991.3	1004.8	1010.3
65°	825.6	833.7	852.7	866.3	869.0
67.5°	700.7	708.8	725.1	736.0	784.9
70°	586.6	592.0	600.2	621.9	608.3
72.5°	478.0	480.7	488.8	488.8	491.6
75°	374.8	377.5	380.2	377.5	382.9
77.5°	279.7	285.2	287.9	285.2	282.4
80°	201.0	206.4	203.7	198.3	198.3
82.5°	130.4	133.1	130.4	127.6	127.6
85°	67.9	73.3	70.6	67.9	67.9
87.5°	24.4	27.2	29.9	32.6	32.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)