

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: P296848

Luminaire Tested: **D3X-WD-80L82765-LD5-UNV-24-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296848
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-80L82765-LD5-UNV-24-T1-W2A-6500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7911.0 lumens
Efficiency: N/A
Efficacy: 124.8 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

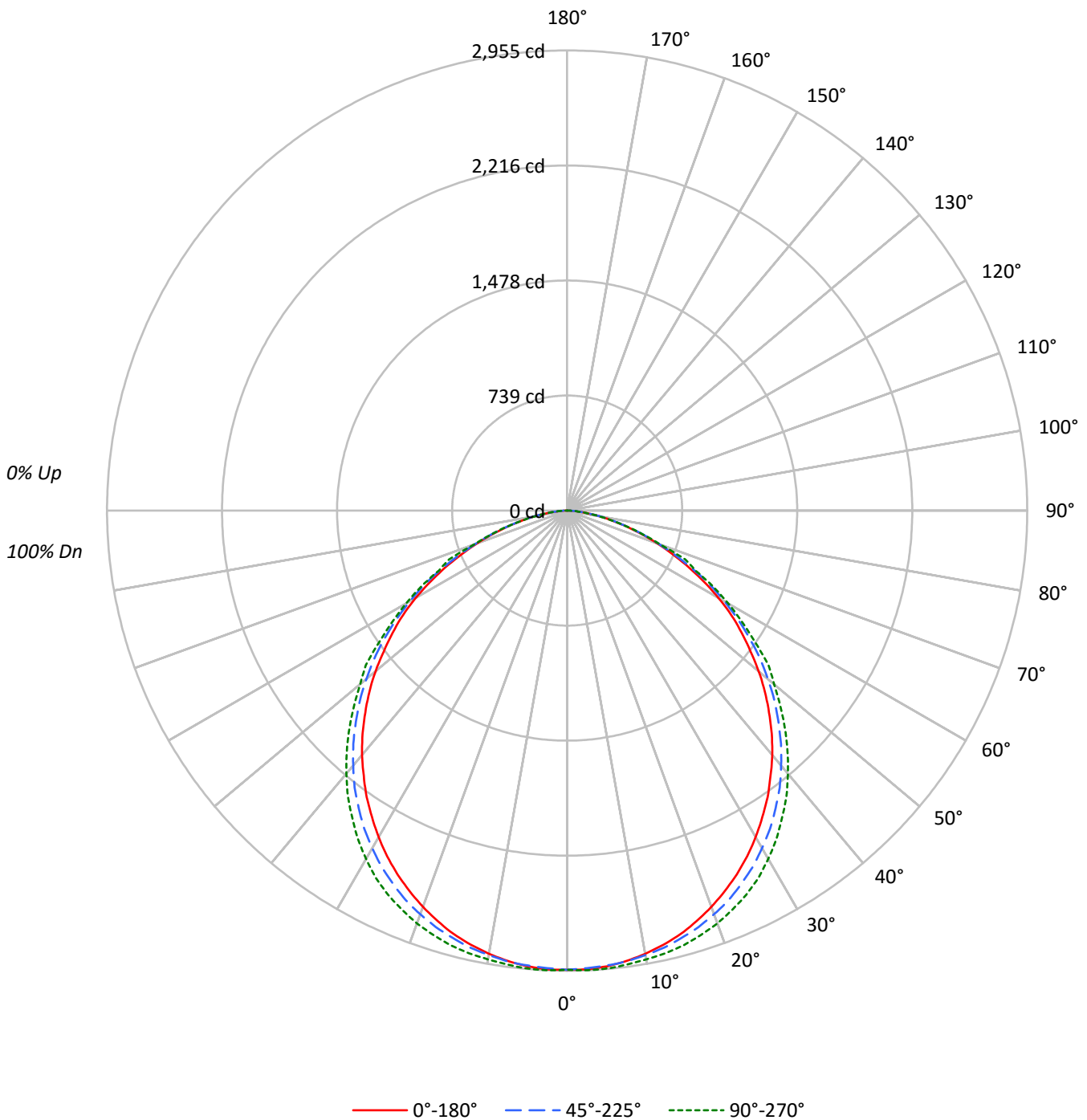
Input Watts (W): 63.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3968	3968	3968
5°	3968	3960	3987
10°	3948	3960	3998
15°	3922	3958	4025
20°	3877	3950	4040
25°	3826	3927	4041
30°	3762	3890	4013
35°	3688	3832	3954
40°	3600	3754	3874
45°	3489	3651	3765
50°	3363	3523	3630
55°	3209	3356	3456
60°	3025	3139	3216
65°	2747	2838	2892
70°	2412	2468	2501
75°	2036	2066	2080
80°	1627	1650	1605
85°	1096	1139	1096



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.5	3.5
10°-20°	803.8	10.2
20°-30°	1219.5	15.4
30°-40°	1455.9	18.4
40°-50°	1474.0	18.6
50°-60°	1274.1	16.1
60°-70°	883.0	11.2
70°-80°	427.3	5.4
80°-90°	93.9	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°	2302.7	29.1
0°-40°	3758.7	47.5
0°-60°	6506.7	82.2
0°-90°	7911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7911.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2949	2949	2949	2949	2949	
5°	2938	2935	2932	2946	2952	279
15°	2816	2821	2841	2875	2890	794
25°	2577	2594	2645	2699	2722	1187
35°	2245	2265	2333	2393	2407	1403
45°	1834	1859	1919	1967	1978	1414
55°	1368	1382	1431	1490	1473	1223
65°	863	871	891	906	908	854
75°	392	394	397	394	400	420
85°	71	77	74	71	71	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2949.2	2949.2	2949.2	2949.2	2949.2
2.5°	2949.2	2946.3	2940.6	2949.2	2954.8
5°	2937.8	2935.0	2932.1	2946.3	2952.0
7.5°	2917.9	2917.9	2920.8	2935.0	2940.6
10°	2889.6	2892.4	2898.1	2920.8	2926.5
12.5°	2855.5	2861.2	2875.4	2900.9	2912.3
15°	2815.8	2821.4	2841.3	2875.4	2889.6
17.5°	2764.7	2776.0	2804.4	2844.1	2858.3
20°	2707.9	2722.1	2759.0	2804.4	2821.4
22.5°	2645.4	2659.6	2707.9	2756.1	2773.2
25°	2577.3	2594.4	2645.4	2699.4	2722.1
27.5°	2503.5	2523.4	2580.2	2636.9	2659.6
30°	2421.2	2443.9	2503.5	2563.1	2583.0
32.5°	2333.2	2355.9	2424.0	2480.8	2500.7
35°	2245.2	2265.1	2333.2	2392.8	2407.0
37.5°	2145.9	2168.6	2242.4	2293.5	2313.3
40°	2049.4	2072.1	2137.4	2188.5	2205.5
42.5°	1944.3	1967.1	2032.3	2080.6	2094.8
45°	1833.6	1859.2	1918.8	1967.1	1978.4
47.5°	1722.9	1742.8	1805.3	1847.8	1856.4
50°	1606.6	1626.4	1683.2	1725.8	1734.3
52.5°	1484.5	1515.7	1561.2	1592.4	1629.3
55°	1368.1	1382.3	1430.6	1490.2	1473.2
57.5°	1251.8	1260.3	1300.0	1325.6	1331.2
60°	1124.0	1135.4	1166.6	1180.8	1195.0
62.5°	990.6	999.1	1036.0	1050.2	1055.9
65°	862.9	871.4	891.3	905.5	908.3
67.5°	732.3	740.8	757.9	769.2	820.3
70°	613.1	618.8	627.3	650.0	635.8
72.5°	499.6	502.4	510.9	510.9	513.8
75°	391.7	394.5	397.4	394.5	400.2
77.5°	292.4	298.0	300.9	298.0	295.2
80°	210.0	215.7	212.9	207.2	207.2
82.5°	136.2	139.1	136.2	133.4	133.4
85°	71.0	76.6	73.8	71.0	71.0
87.5°	25.5	28.4	31.2	34.1	34.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)