

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: P297125

Luminaire Tested: **D3X-WG-80L82765-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297125
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-80L82765-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: 7807.0 lumens
Efficiency: N/A
Efficacy: 125.7 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

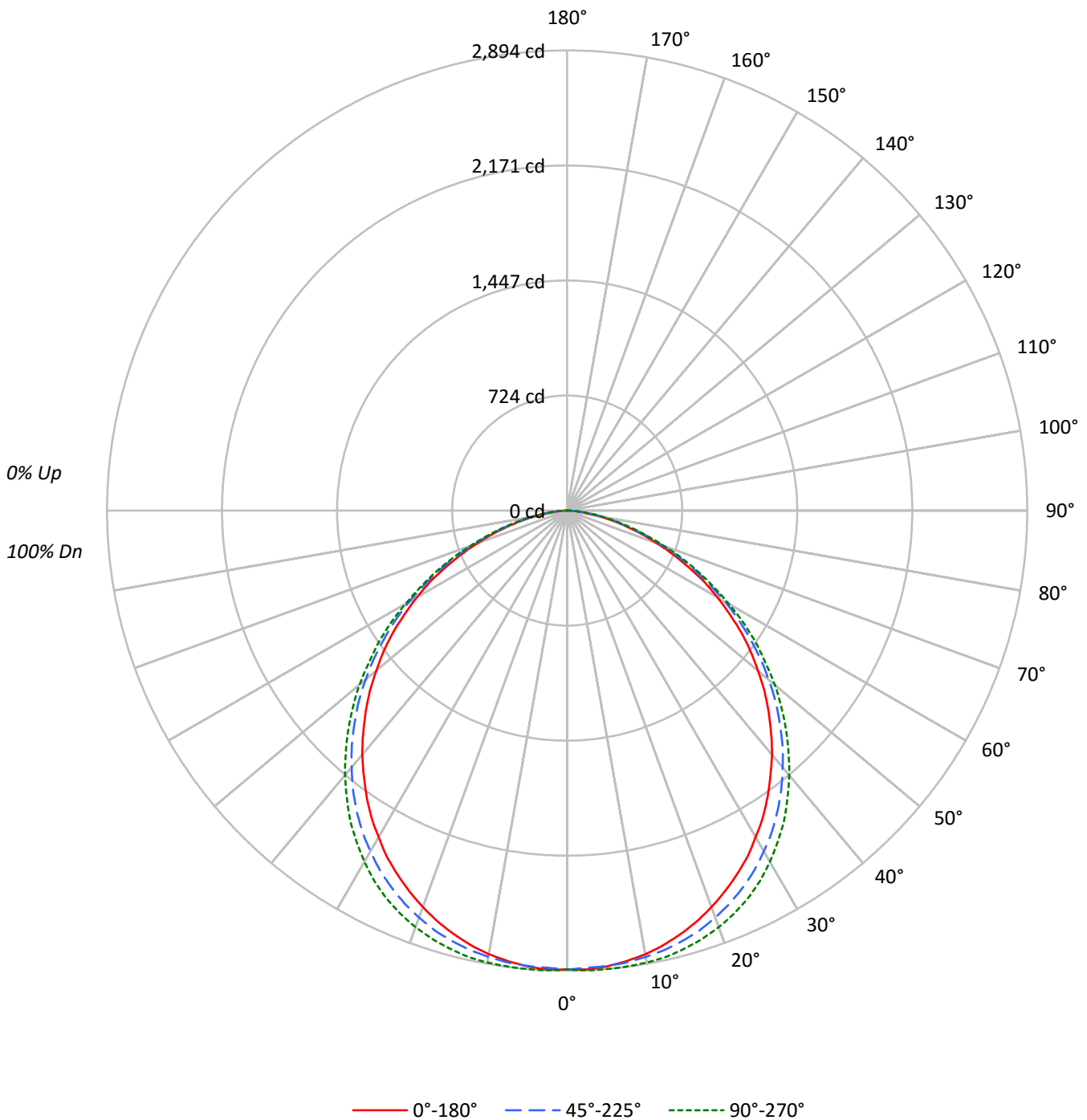
Input Watts (W): 62.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3883	3883	3883
5°	3887	3883	3909
10°	3870	3893	3943
15°	3841	3903	3973
20°	3800	3900	3992
25°	3749	3882	3994
30°	3684	3845	3963
35°	3610	3790	3909
40°	3522	3704	3817
45°	3411	3597	3704
50°	3278	3466	3571
55°	3136	3293	3398
60°	2935	3085	3161
65°	2680	2822	2894
70°	2354	2475	2541
75°	1992	2093	2166
80°	1582	1733	1777
85°	1079	1295	1252



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.2	3.5
10°-20°	791.7	10.1
20°-30°	1203.1	15.4
30°-40°	1435.7	18.4
40°-50°	1450.0	18.6
50°-60°	1249.2	16.0
60°-70°	870.9	11.2
70°-80°	431.6	5.5
80°-90°	100.6	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°	2269.1	29.1
0°-40°	3704.7	47.5
0°-60°	6403.9	82.0
0°-90°	7807.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7807.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2886	2886	2886	2886	2886	
5°	2878	2875	2875	2889	2894	273
15°	2757	2771	2802	2838	2852	778
25°	2525	2559	2615	2668	2690	1163
35°	2198	2234	2307	2360	2380	1374
45°	1793	1832	1890	1935	1946	1382
55°	1337	1365	1404	1437	1449	1191
65°	842	859	886	895	909	836
75°	383	389	403	411	417	413
85°	70	84	84	78	81	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2886.1	2886.1	2886.1	2886.1	2886.1
2.5°	2888.9	2883.3	2877.7	2888.9	2894.5
5°	2877.7	2874.9	2874.9	2888.9	2894.5
7.5°	2858.1	2858.1	2866.5	2886.1	2891.7
10°	2832.9	2838.5	2849.7	2877.7	2886.1
12.5°	2799.4	2810.6	2830.2	2863.7	2874.9
15°	2757.4	2771.4	2802.2	2838.5	2852.5
17.5°	2709.9	2729.5	2768.6	2810.6	2824.6
20°	2654.0	2679.1	2723.9	2771.4	2788.2
22.5°	2592.4	2623.2	2673.5	2723.9	2743.5
25°	2525.3	2558.9	2614.8	2667.9	2690.3
27.5°	2455.4	2489.0	2550.5	2603.6	2626.0
30°	2371.5	2410.7	2475.0	2530.9	2550.5
32.5°	2290.4	2329.6	2396.7	2447.0	2466.6
35°	2198.1	2234.5	2307.2	2360.3	2379.9
37.5°	2100.2	2142.2	2212.1	2259.6	2276.4
40°	2005.2	2041.5	2108.6	2156.2	2173.0
42.5°	1898.9	1938.0	2005.2	2047.1	2061.1
45°	1792.6	1831.8	1890.5	1935.2	1946.4
47.5°	1683.5	1719.9	1778.6	1815.0	1826.2
50°	1566.1	1599.7	1655.6	1691.9	1705.9
52.5°	1454.2	1485.0	1532.5	1563.3	1571.7
55°	1336.8	1364.7	1403.9	1437.4	1448.6
57.5°	1210.9	1241.7	1278.0	1306.0	1314.4
60°	1090.7	1115.8	1146.6	1171.8	1174.6
62.5°	973.2	984.4	1012.4	1034.7	1037.5
65°	841.8	858.6	886.5	894.9	908.9
67.5°	721.5	732.7	755.1	766.3	777.5
70°	598.5	606.9	629.2	643.2	646.0
72.5°	492.2	495.0	511.8	523.0	525.8
75°	383.1	388.7	402.7	411.1	416.7
77.5°	290.8	296.4	307.6	313.2	313.2
80°	204.2	212.5	223.7	226.5	229.3
82.5°	131.4	142.6	151.0	153.8	148.2
85°	69.9	83.9	83.9	78.3	81.1
87.5°	25.2	30.8	33.6	36.4	36.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)