

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: P297036

Luminaire Tested: **D3X-WG-80L83050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297036
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-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7961.0 lumens
Efficiency: N/A
Efficacy: 128.2 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

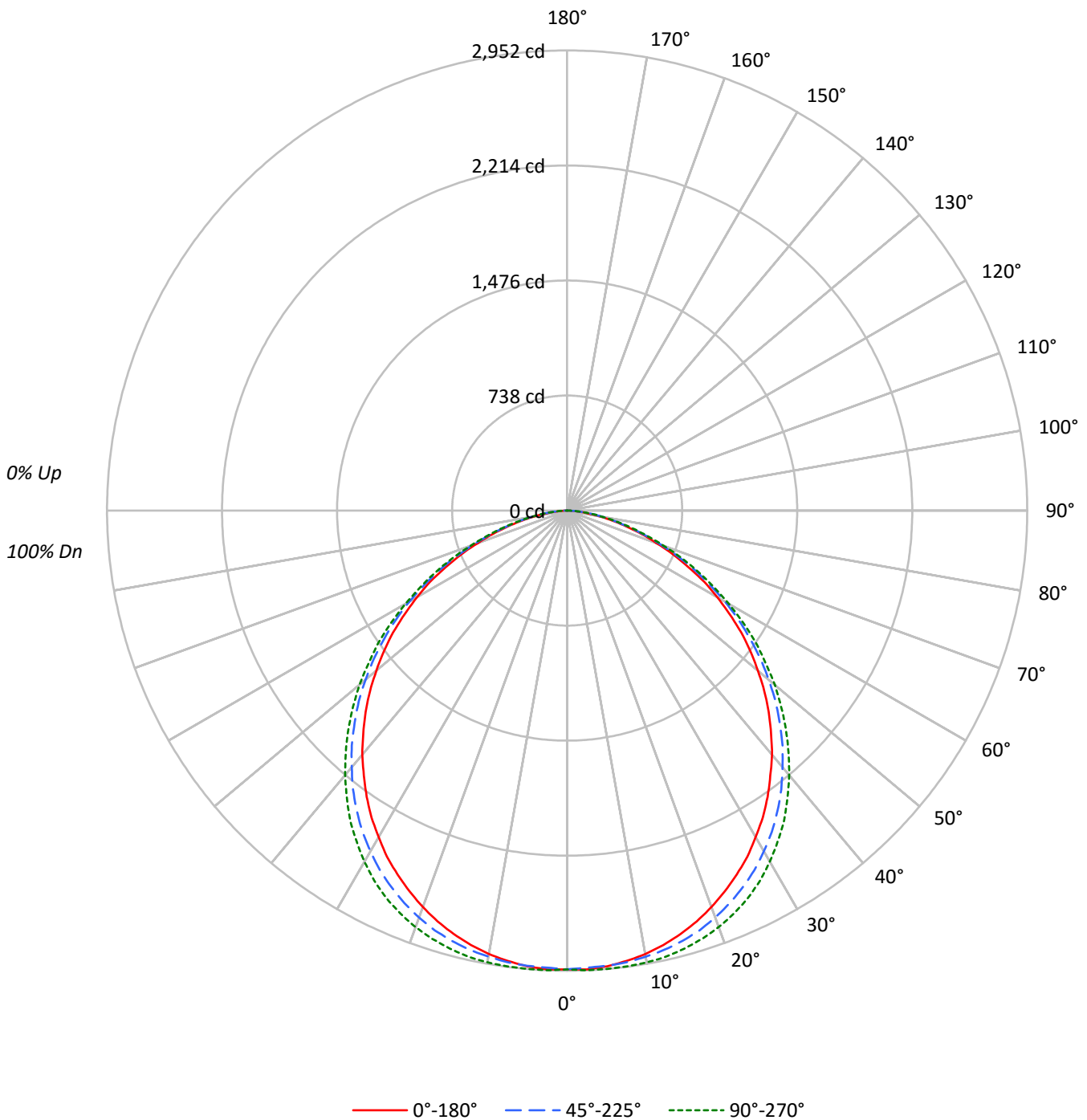
Input Watts (W): 62.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3960	3960	3960
5°	3963	3960	3987
10°	3947	3970	4021
15°	3917	3980	4052
20°	3875	3977	4071
25°	3823	3958	4073
30°	3757	3921	4041
35°	3682	3864	3986
40°	3591	3777	3892
45°	3478	3668	3777
50°	3343	3534	3641
55°	3198	3358	3465
60°	2993	3146	3223
65°	2733	2878	2951
70°	2401	2524	2592
75°	2031	2135	2209
80°	1613	1767	1812
85°	1101	1321	1277



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.6	3.5
10°-20°	807.3	10.1
20°-30°	1226.9	15.4
30°-40°	1464.0	18.4
40°-50°	1478.6	18.6
50°-60°	1273.9	16.0
60°-70°	888.0	11.2
70°-80°	440.1	5.5
80°-90°	102.6	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°	2313.8	29.1
0°-40°	3777.8	47.5
0°-60°	6530.3	82.0
0°-90°	7961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7961.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2943	2943	2943	2943	2943	
5°	2934	2932	2932	2946	2952	279
15°	2812	2826	2858	2894	2909	793
25°	2575	2609	2666	2721	2743	1186
35°	2242	2279	2353	2407	2427	1401
45°	1828	1868	1928	1973	1985	1409
55°	1363	1392	1432	1466	1477	1215
65°	858	876	904	913	927	852
75°	391	396	411	419	425	421
85°	71	86	86	80	83	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2943.0	2943.0	2943.0	2943.0	2943.0
2.5°	2945.9	2940.2	2934.5	2945.9	2951.6
5°	2934.5	2931.6	2931.6	2945.9	2951.6
7.5°	2914.5	2914.5	2923.1	2943.0	2948.7
10°	2888.8	2894.5	2905.9	2934.5	2943.0
12.5°	2854.6	2866.0	2886.0	2920.2	2931.6
15°	2811.8	2826.1	2857.5	2894.5	2908.8
17.5°	2763.4	2783.3	2823.2	2866.0	2880.3
20°	2706.3	2732.0	2777.6	2826.1	2843.2
22.5°	2643.6	2674.9	2726.3	2777.6	2797.6
25°	2575.1	2609.4	2666.4	2720.6	2743.4
27.5°	2503.8	2538.1	2600.8	2655.0	2677.8
30°	2418.3	2458.2	2523.8	2580.8	2600.8
32.5°	2335.6	2375.5	2444.0	2495.3	2515.2
35°	2241.5	2278.6	2352.7	2406.9	2426.8
37.5°	2141.7	2184.4	2255.7	2304.2	2321.3
40°	2044.7	2081.8	2150.2	2198.7	2215.8
42.5°	1936.3	1976.3	2044.7	2087.5	2101.7
45°	1828.0	1867.9	1927.8	1973.4	1984.8
47.5°	1716.8	1753.8	1813.7	1850.8	1862.2
50°	1597.0	1631.2	1688.2	1725.3	1739.6
52.5°	1482.9	1514.3	1562.8	1594.1	1602.7
55°	1363.1	1391.7	1431.6	1465.8	1477.2
57.5°	1234.8	1266.2	1303.3	1331.8	1340.3
60°	1112.2	1137.9	1169.2	1194.9	1197.7
62.5°	992.4	1003.8	1032.3	1055.2	1058.0
65°	858.4	875.5	904.0	912.6	926.8
67.5°	735.8	747.2	770.0	781.4	792.8
70°	610.3	618.8	641.6	655.9	658.8
72.5°	501.9	504.8	521.9	533.3	536.1
75°	390.7	396.4	410.7	419.2	424.9
77.5°	296.6	302.3	313.7	319.4	319.4
80°	208.2	216.7	228.1	231.0	233.8
82.5°	134.0	145.4	154.0	156.8	151.1
85°	71.3	85.6	85.6	79.8	82.7
87.5°	25.7	31.4	34.2	37.1	37.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)