

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: P297175

Luminaire Tested: **D3X-WG-80L93050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297175
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-80L93050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6445.0 lumens
Efficiency: N/A
Efficacy: 104.3 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

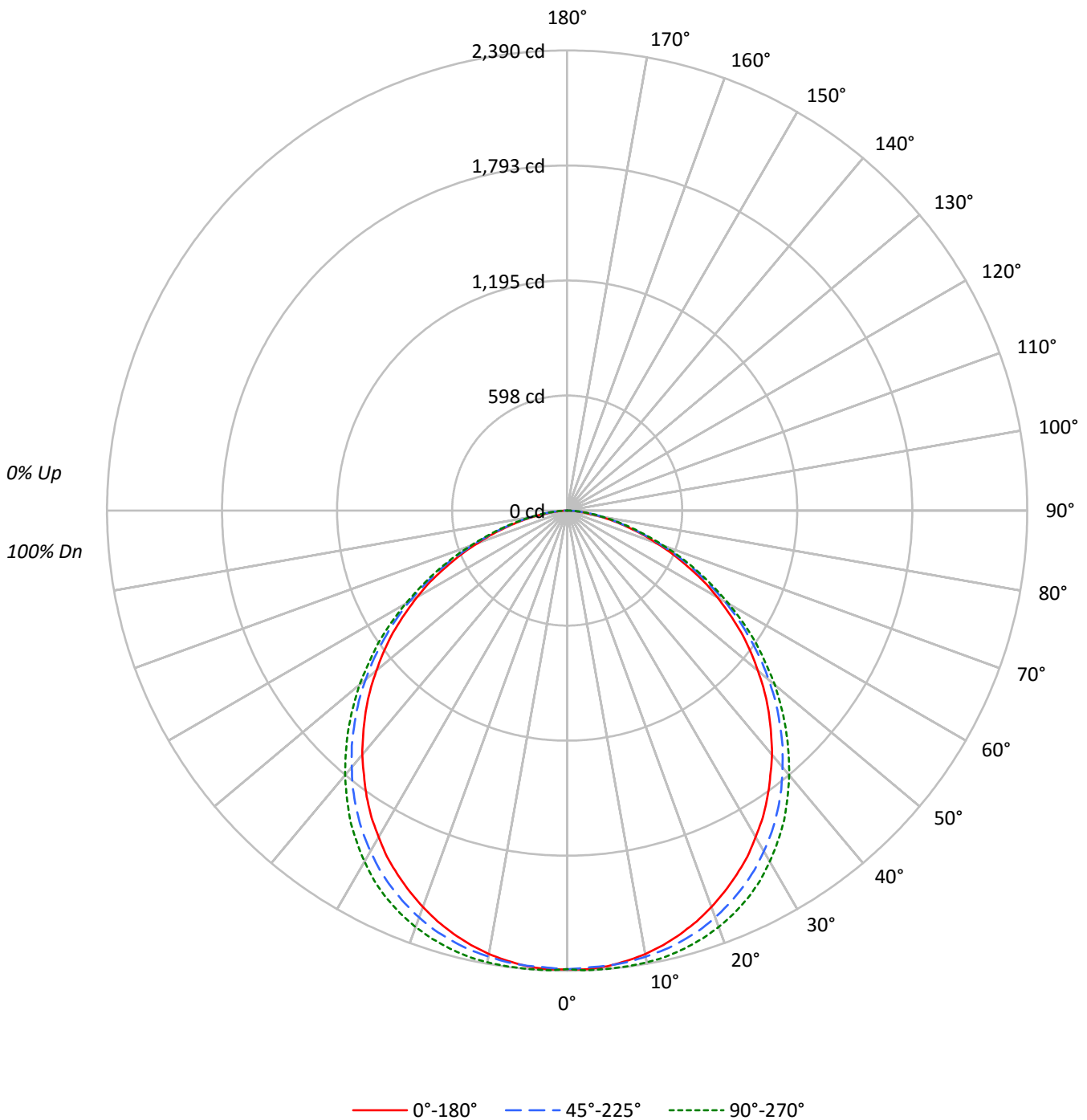
Input Watts (W): 61.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3206	3206	3206
5°	3209	3205	3227
10°	3195	3214	3255
15°	3171	3222	3280
20°	3137	3220	3296
25°	3095	3205	3297
30°	3042	3174	3271
35°	2981	3129	3227
40°	2907	3058	3151
45°	2816	2970	3058
50°	2706	2861	2948
55°	2589	2719	2805
60°	2423	2547	2609
65°	2212	2330	2389
70°	1944	2044	2098
75°	1644	1729	1788
80°	1306	1431	1467
85°	891	1070	1034



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.4	3.5
10°-20°	653.6	10.1
20°-30°	993.2	15.4
30°-40°	1185.2	18.4
40°-50°	1197.0	18.6
50°-60°	1031.3	16.0
60°-70°	718.9	11.2
70°-80°	356.3	5.5
80°-90°	83.1	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°	1873.2	29.1
0°-40°	3058.4	47.5
0°-60°	5286.7	82.0
0°-90°	6445.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6445.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2383	2383	2383	2383	2383	
5°	2376	2373	2373	2385	2390	226
15°	2276	2288	2313	2343	2355	642
25°	2085	2112	2159	2202	2221	960
35°	1815	1845	1905	1948	1965	1134
45°	1480	1512	1561	1598	1607	1141
55°	1104	1127	1159	1187	1196	984
65°	695	709	732	739	750	690
75°	316	321	332	339	344	341
85°	58	69	69	65	67	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2382.6	2382.6	2382.6	2382.6	2382.6
2.5°	2384.9	2380.3	2375.7	2384.9	2389.5
5°	2375.7	2373.3	2373.3	2384.9	2389.5
7.5°	2359.5	2359.5	2366.4	2382.6	2387.2
10°	2338.7	2343.3	2352.6	2375.7	2382.6
12.5°	2311.0	2320.2	2336.4	2364.1	2373.3
15°	2276.4	2287.9	2313.3	2343.3	2354.9
17.5°	2237.1	2253.3	2285.6	2320.2	2331.8
20°	2191.0	2211.7	2248.7	2287.9	2301.8
22.5°	2140.2	2165.6	2207.1	2248.7	2264.8
25°	2084.8	2112.5	2158.6	2202.5	2221.0
27.5°	2027.0	2054.7	2105.5	2149.4	2167.9
30°	1957.8	1990.1	2043.2	2089.4	2105.5
32.5°	1890.8	1923.1	1978.6	2020.1	2036.3
35°	1814.6	1844.7	1904.7	1948.5	1964.7
37.5°	1733.8	1768.5	1826.2	1865.4	1879.3
40°	1655.3	1685.4	1740.8	1780.0	1793.9
42.5°	1567.6	1599.9	1655.3	1690.0	1701.5
45°	1479.9	1512.2	1560.7	1597.6	1606.9
47.5°	1389.8	1419.9	1468.3	1498.3	1507.6
50°	1292.9	1320.6	1366.8	1396.8	1408.3
52.5°	1200.5	1225.9	1265.2	1290.6	1297.5
55°	1103.6	1126.6	1159.0	1186.7	1195.9
57.5°	999.7	1025.1	1055.1	1078.2	1085.1
60°	900.4	921.2	946.6	967.3	969.7
62.5°	803.4	812.7	835.7	854.2	856.5
65°	694.9	708.8	731.9	738.8	750.3
67.5°	595.6	604.9	623.3	632.6	641.8
70°	494.1	501.0	519.5	531.0	533.3
72.5°	406.3	408.6	422.5	431.7	434.0
75°	316.3	320.9	332.5	339.4	344.0
77.5°	240.1	244.7	254.0	258.6	258.6
80°	168.5	175.5	184.7	187.0	189.3
82.5°	108.5	117.7	124.7	127.0	122.4
85°	57.7	69.3	69.3	64.6	67.0
87.5°	20.8	25.4	27.7	30.0	30.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)