

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: P296878

Luminaire Tested: **D3X-WD-55L93050-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296878
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-55L93050-LD5-UNV-24-T1-W2A-5000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4865.0 lumens
Efficiency: N/A
Efficacy: 121.9 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

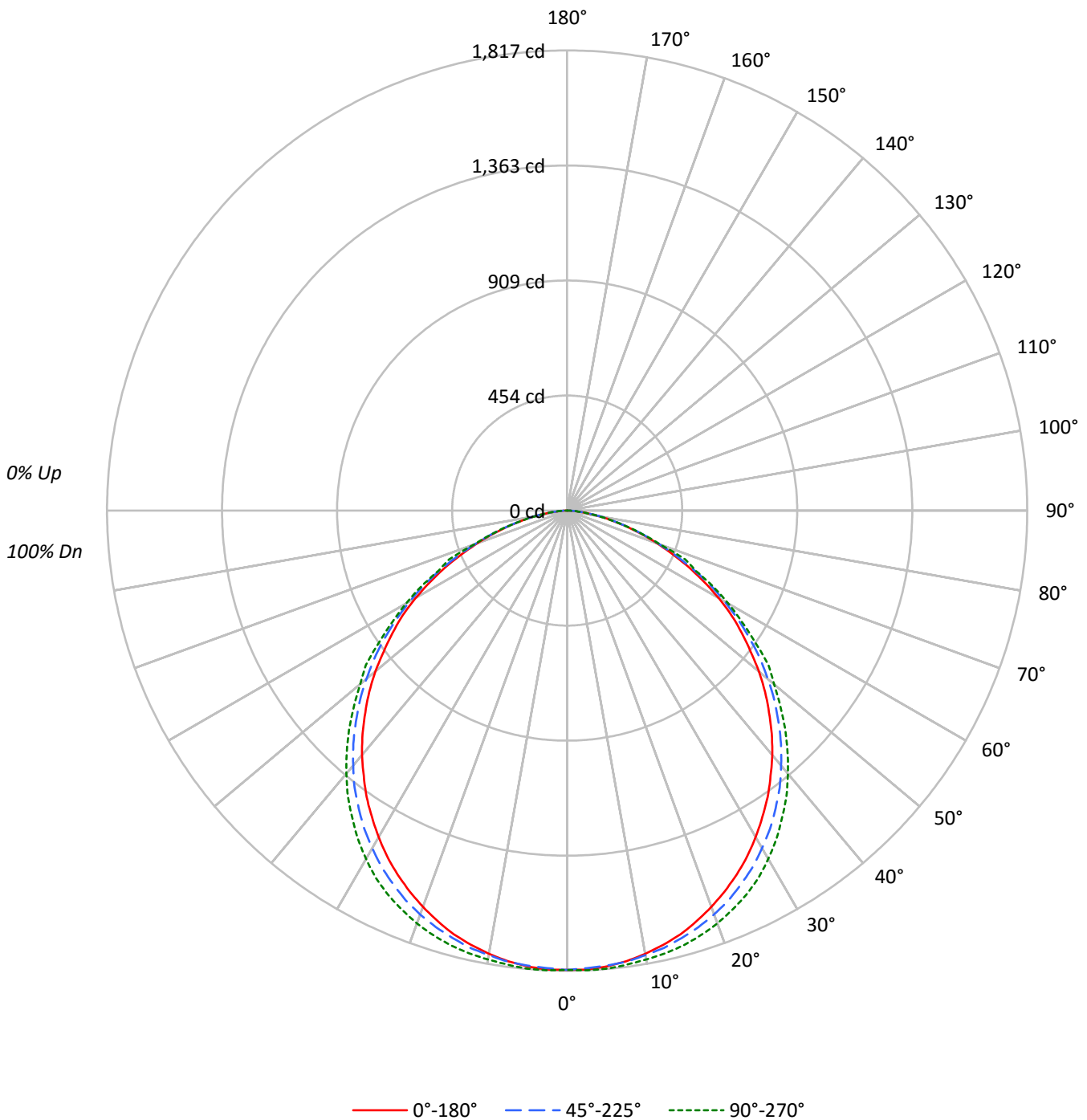
Input Watts (W): 39.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2440	2440	2440
5°	2440	2435	2452
10°	2428	2435	2459
15°	2412	2434	2475
20°	2384	2429	2484
25°	2353	2415	2485
30°	2313	2392	2468
35°	2268	2357	2431
40°	2214	2309	2382
45°	2146	2245	2315
50°	2068	2167	2232
55°	1974	2064	2125
60°	1860	1931	1978
65°	1690	1745	1778
70°	1483	1518	1538
75°	1252	1271	1279
80°	1001	1014	987
85°	673	701	673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	3.5
10°-20°	494.3	10.2
20°-30°	749.9	15.4
30°-40°	895.4	18.4
40°-50°	906.5	18.6
50°-60°	783.5	16.1
60°-70°	543.0	11.2
70°-80°	262.7	5.4
80°-90°	57.8	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°	1416.1	29.1
0°-40°	2311.5	47.5
0°-60°	4001.4	82.2
0°-90°	4865.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4865.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1814	1814	1814	1814	1814	
5°	1807	1805	1803	1812	1815	172
15°	1732	1735	1747	1768	1777	488
25°	1585	1595	1627	1660	1674	730
35°	1381	1393	1435	1472	1480	863
45°	1128	1143	1180	1210	1217	870
55°	841	850	880	916	906	752
65°	531	536	548	557	559	525
75°	241	243	244	243	246	258
85°	44	47	45	44	44	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1813.6	1813.6	1813.6	1813.6	1813.6
2.5°	1813.6	1811.9	1808.4	1813.6	1817.1
5°	1806.7	1804.9	1803.2	1811.9	1815.4
7.5°	1794.4	1794.4	1796.2	1804.9	1808.4
10°	1777.0	1778.7	1782.2	1796.2	1799.7
12.5°	1756.0	1759.5	1768.3	1784.0	1790.9
15°	1731.6	1735.1	1747.3	1768.3	1777.0
17.5°	1700.2	1707.2	1724.6	1749.1	1757.8
20°	1665.3	1674.0	1696.7	1724.6	1735.1
22.5°	1626.9	1635.6	1665.3	1694.9	1705.4
25°	1585.0	1595.4	1626.9	1660.0	1674.0
27.5°	1539.6	1551.8	1586.7	1621.6	1635.6
30°	1489.0	1502.9	1539.6	1576.2	1588.5
32.5°	1434.9	1448.8	1490.7	1525.6	1537.8
35°	1380.7	1393.0	1434.9	1471.5	1480.2
37.5°	1319.6	1333.6	1379.0	1410.4	1422.6
40°	1260.3	1274.3	1314.4	1345.8	1356.3
42.5°	1195.7	1209.7	1249.8	1279.5	1288.2
45°	1127.6	1143.3	1180.0	1209.7	1216.7
47.5°	1059.6	1071.8	1110.2	1136.4	1141.6
50°	988.0	1000.2	1035.1	1061.3	1066.5
52.5°	912.9	932.1	960.1	979.3	1002.0
55°	841.4	850.1	879.8	916.4	905.9
57.5°	769.8	775.0	799.5	815.2	818.7
60°	691.2	698.2	717.4	726.2	734.9
62.5°	609.2	614.4	637.1	645.9	649.3
65°	530.7	535.9	548.1	556.8	558.6
67.5°	450.4	455.6	466.1	473.0	504.5
70°	377.0	380.5	385.8	399.7	391.0
72.5°	307.2	309.0	314.2	314.2	315.9
75°	240.9	242.6	244.4	242.6	246.1
77.5°	179.8	183.3	185.0	183.3	181.5
80°	129.2	132.7	130.9	127.4	127.4
82.5°	83.8	85.5	83.8	82.0	82.0
85°	43.6	47.1	45.4	43.6	43.6
87.5°	15.7	17.5	19.2	20.9	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)