

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: P297156

Luminaire Tested: **D3X-WG-55L93050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297156
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-55L93050-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4790.0 lumens
Efficiency: N/A
Efficacy: 121.9 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

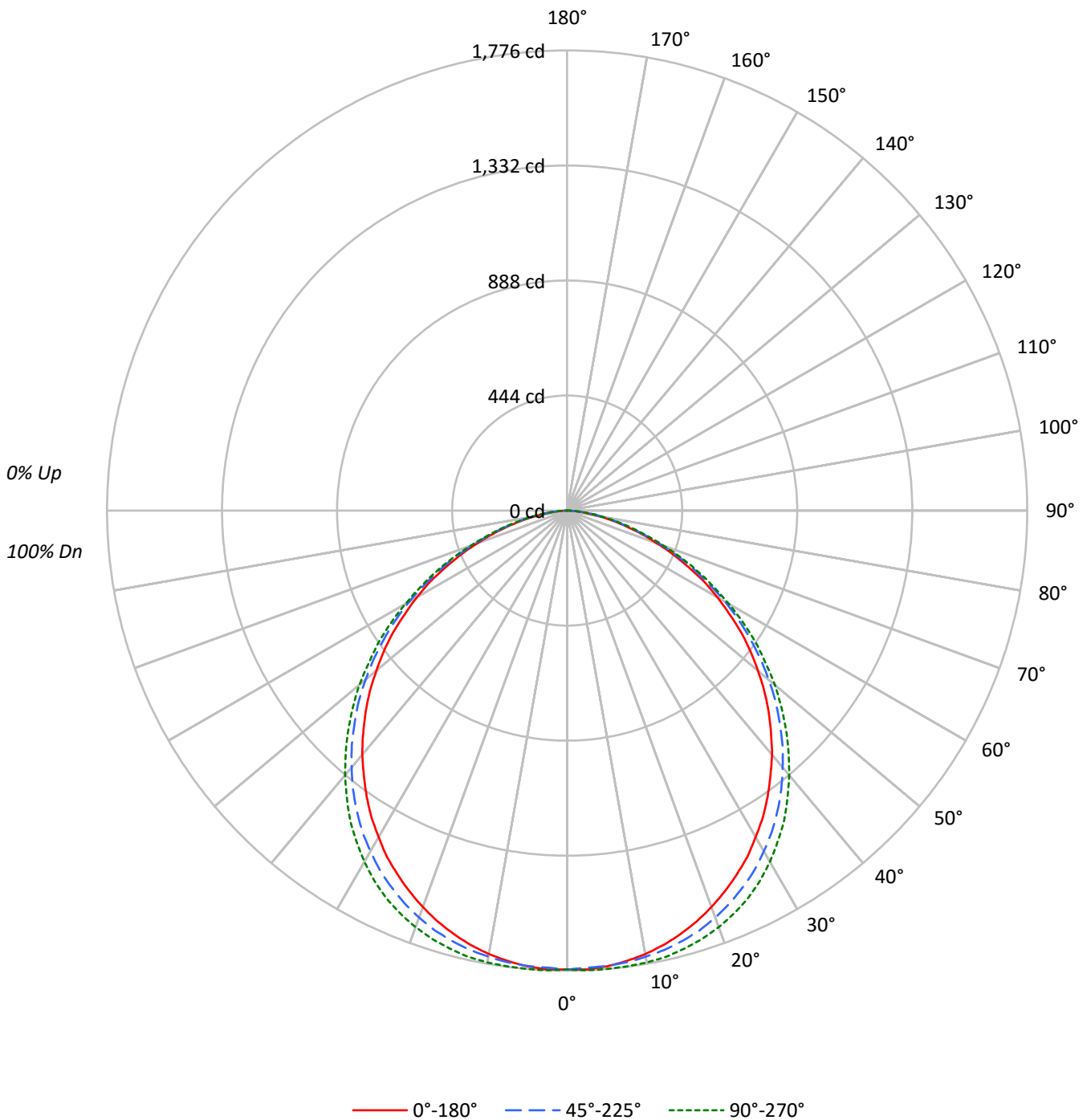
Input Watts (W): 39.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2383	2383	2383
5°	2385	2382	2399
10°	2375	2389	2419
15°	2357	2395	2438
20°	2331	2393	2449
25°	2300	2382	2451
30°	2261	2359	2431
35°	2215	2325	2398
40°	2161	2272	2342
45°	2093	2207	2272
50°	2011	2126	2191
55°	1924	2021	2085
60°	1801	1893	1939
65°	1644	1732	1776
70°	1445	1519	1559
75°	1222	1285	1329
80°	971	1064	1090
85°	662	795	769



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.3	3.5
10°-20°	485.8	10.1
20°-30°	738.2	15.4
30°-40°	880.8	18.4
40°-50°	889.6	18.6
50°-60°	766.5	16.0
60°-70°	534.3	11.2
70°-80°	264.8	5.5
80°-90°	61.7	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°	1392.2	29.1
0°-40°	2273.0	47.5
0°-60°	3929.2	82.0
0°-90°	4790.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4790.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1771	1771	1771	1771	1771	
5°	1766	1764	1764	1772	1776	168
15°	1692	1700	1719	1742	1750	477
25°	1549	1570	1604	1637	1651	714
35°	1349	1371	1416	1448	1460	843
45°	1100	1124	1160	1187	1194	848
55°	820	837	861	882	889	731
65°	516	527	544	549	558	513
75°	235	238	247	252	256	253
85°	43	52	52	48	50	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1770.8	1770.8	1770.8	1770.8	1770.8
2.5°	1772.5	1769.0	1765.6	1772.5	1775.9
5°	1765.6	1763.9	1763.9	1772.5	1775.9
7.5°	1753.6	1753.6	1758.8	1770.8	1774.2
10°	1738.2	1741.6	1748.5	1765.6	1770.8
12.5°	1717.6	1724.4	1736.4	1757.0	1763.9
15°	1691.8	1700.4	1719.3	1741.6	1750.2
17.5°	1662.7	1674.7	1698.7	1724.4	1733.0
20°	1628.3	1643.8	1671.2	1700.4	1710.7
22.5°	1590.6	1609.5	1640.4	1671.2	1683.3
25°	1549.4	1570.0	1604.3	1636.9	1650.7
27.5°	1506.5	1527.1	1564.9	1597.5	1611.2
30°	1455.0	1479.1	1518.5	1552.8	1564.9
32.5°	1405.3	1429.3	1470.5	1501.4	1513.4
35°	1348.7	1371.0	1415.6	1448.2	1460.2
37.5°	1288.6	1314.3	1357.2	1386.4	1396.7
40°	1230.3	1252.6	1293.8	1322.9	1333.2
42.5°	1165.1	1189.1	1230.3	1256.0	1264.6
45°	1099.9	1123.9	1159.9	1187.4	1194.2
47.5°	1032.9	1055.3	1091.3	1113.6	1120.5
50°	960.9	981.5	1015.8	1038.1	1046.7
52.5°	892.2	911.1	940.3	959.2	964.3
55°	820.2	837.3	861.4	881.9	888.8
57.5°	743.0	761.8	784.1	801.3	806.5
60°	669.2	684.6	703.5	718.9	720.7
62.5°	597.1	604.0	621.1	634.9	636.6
65°	516.5	526.8	543.9	549.1	557.7
67.5°	442.7	449.6	463.3	470.1	477.0
70°	367.2	372.3	386.1	394.6	396.4
72.5°	302.0	303.7	314.0	320.9	322.6
75°	235.1	238.5	247.1	252.2	255.7
77.5°	178.4	181.9	188.7	192.2	192.2
80°	125.3	130.4	137.3	139.0	140.7
82.5°	80.6	87.5	92.7	94.4	90.9
85°	42.9	51.5	51.5	48.0	49.8
87.5°	15.4	18.9	20.6	22.3	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)