

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: P297228

Luminaire Tested: **D3X-WG-55L92765-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297228
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-55L92765-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4728.0 lumens
Efficiency: N/A
Efficacy: 120.9 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

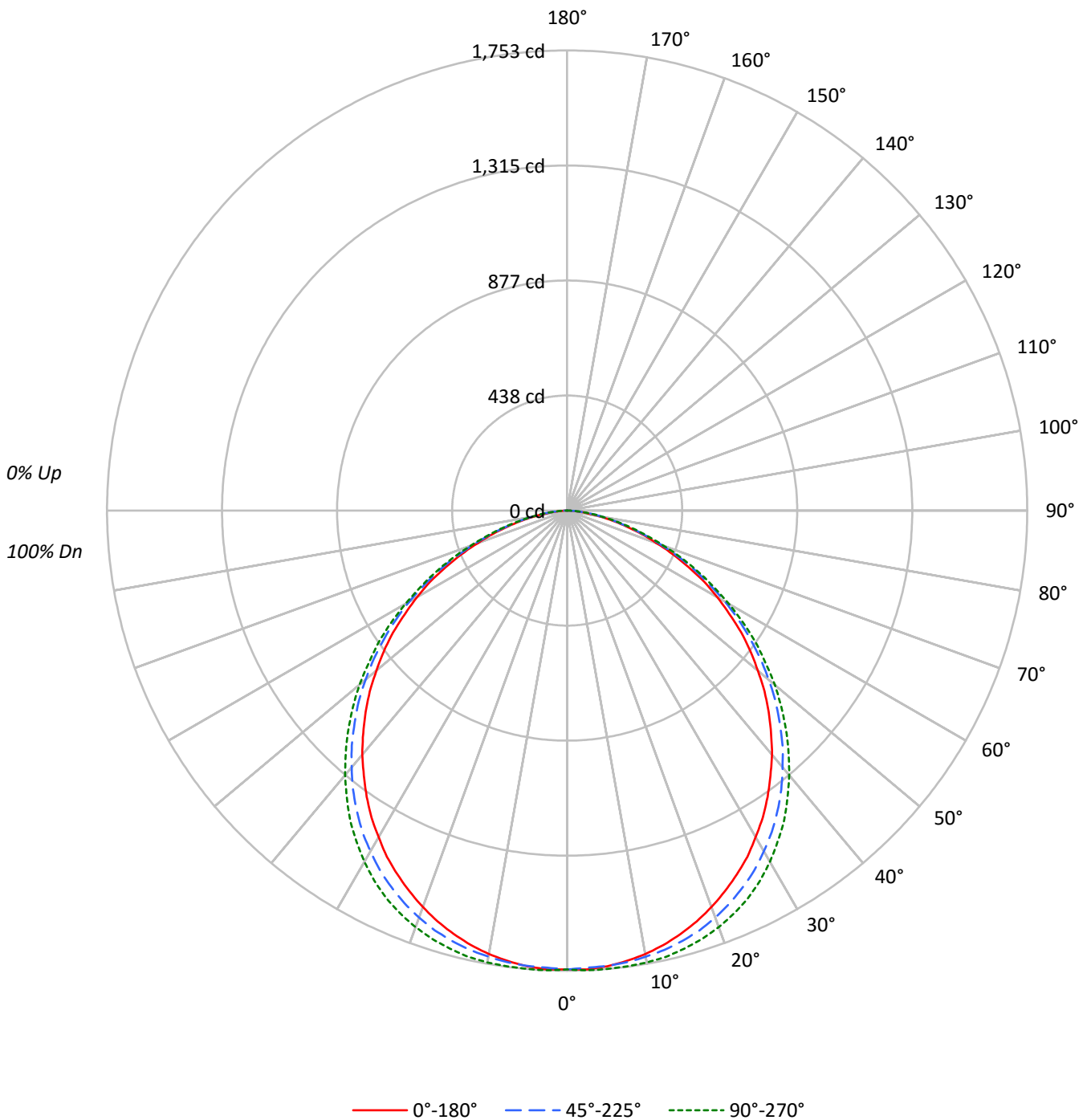
Input Watts (W): 39.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2352	2352	2352
5°	2354	2352	2368
10°	2344	2358	2388
15°	2326	2364	2406
20°	2301	2362	2418
25°	2271	2351	2419
30°	2231	2329	2400
35°	2187	2295	2367
40°	2133	2243	2311
45°	2066	2179	2243
50°	1985	2099	2162
55°	1899	1994	2058
60°	1777	1869	1914
65°	1623	1709	1752
70°	1426	1499	1539
75°	1206	1268	1312
80°	958	1050	1076
85°	653	784	758



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.1	3.5
10°-20°	479.5	10.1
20°-30°	728.6	15.4
30°-40°	869.4	18.4
40°-50°	878.1	18.6
50°-60°	756.5	16.0
60°-70°	527.4	11.2
70°-80°	261.4	5.5
80°-90°	60.9	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°	1374.2	29.1
0°-40°	2243.6	47.5
0°-60°	3878.3	82.0
0°-90°	4728.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4728.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1748	1748	1748	1748	1748	
5°	1743	1741	1741	1750	1753	165
15°	1670	1678	1697	1719	1728	471
25°	1529	1550	1584	1616	1629	705
35°	1331	1353	1397	1429	1441	832
45°	1086	1109	1145	1172	1179	837
55°	810	826	850	870	877	722
65°	510	520	537	542	550	506
75°	232	235	244	249	252	250
85°	42	51	51	47	49	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1747.8	1747.8	1747.8	1747.8	1747.8
2.5°	1749.5	1746.1	1742.8	1749.5	1752.9
5°	1742.8	1741.1	1741.1	1749.5	1752.9
7.5°	1730.9	1730.9	1736.0	1747.8	1751.2
10°	1715.7	1719.0	1725.8	1742.8	1747.8
12.5°	1695.3	1702.1	1714.0	1734.3	1741.1
15°	1669.9	1678.4	1697.0	1719.0	1727.5
17.5°	1641.1	1653.0	1676.7	1702.1	1710.6
20°	1607.3	1622.5	1649.6	1678.4	1688.6
22.5°	1570.0	1588.6	1619.1	1649.6	1661.5
25°	1529.4	1549.7	1583.6	1615.7	1629.3
27.5°	1487.0	1507.3	1544.6	1576.8	1590.3
30°	1436.2	1459.9	1498.9	1532.7	1544.6
32.5°	1387.1	1410.8	1451.5	1481.9	1493.8
35°	1331.2	1353.2	1397.3	1429.4	1441.3
37.5°	1271.9	1297.3	1339.7	1368.5	1378.6
40°	1214.3	1236.4	1277.0	1305.8	1316.0
42.5°	1150.0	1173.7	1214.3	1239.7	1248.2
45°	1085.6	1109.3	1144.9	1172.0	1178.8
47.5°	1019.6	1041.6	1077.2	1099.2	1106.0
50°	948.4	968.8	1002.6	1024.7	1033.1
52.5°	880.7	899.3	928.1	946.7	951.8
55°	809.6	826.5	850.2	870.5	877.3
57.5°	733.3	752.0	774.0	790.9	796.0
60°	660.5	675.8	694.4	709.6	711.3
62.5°	589.4	596.2	613.1	626.6	628.3
65°	509.8	519.9	536.9	542.0	550.4
67.5°	437.0	443.7	457.3	464.1	470.8
70°	362.4	367.5	381.1	389.5	391.2
72.5°	298.1	299.8	309.9	316.7	318.4
75°	232.0	235.4	243.9	249.0	252.4
77.5°	176.1	179.5	186.3	189.7	189.7
80°	123.6	128.7	135.5	137.2	138.9
82.5°	79.6	86.4	91.5	93.2	89.8
85°	42.3	50.8	50.8	47.4	49.1
87.5°	15.2	18.6	20.3	22.0	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)