

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: P297087

Luminaire Tested: **D3X-WG-55L82765-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297087
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-55L82765-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: 5209.0 lumens
Efficiency: N/A
Efficacy: 134.3 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

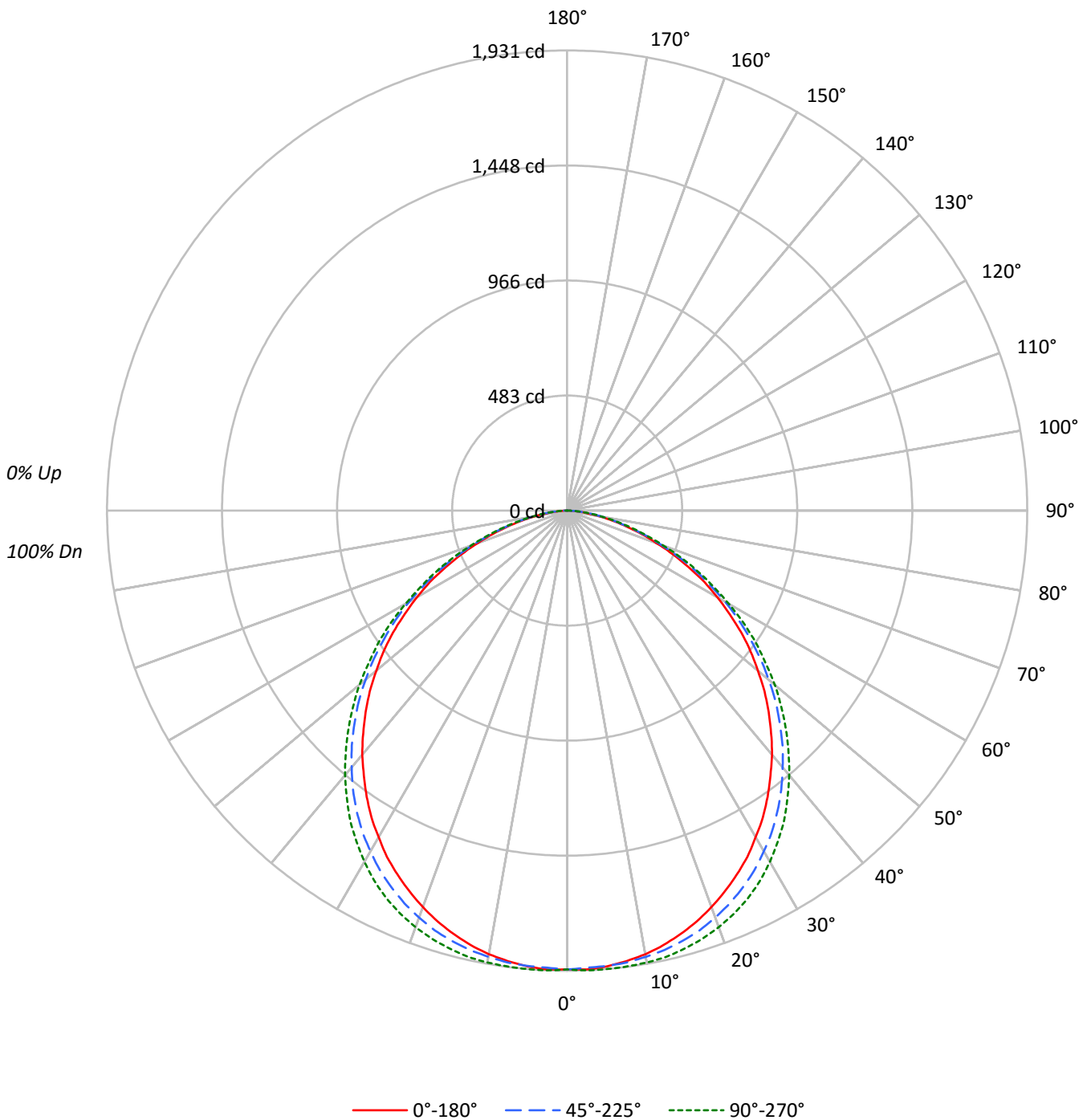
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2591	2591	2591
5°	2593	2591	2608
10°	2582	2598	2631
15°	2563	2604	2651
20°	2536	2602	2664
25°	2501	2590	2665
30°	2458	2566	2644
35°	2409	2529	2608
40°	2350	2471	2546
45°	2276	2400	2471
50°	2187	2312	2382
55°	2092	2197	2267
60°	1958	2059	2109
65°	1788	1883	1931
70°	1571	1651	1696
75°	1329	1397	1445
80°	1055	1157	1185
85°	719	865	835



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.0	3.5
10°-20°	528.2	10.1
20°-30°	802.8	15.4
30°-40°	957.9	18.4
40°-50°	967.5	18.6
50°-60°	833.5	16.0
60°-70°	581.0	11.2
70°-80°	288.0	5.5
80°-90°	67.1	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°	1514.0	29.1
0°-40°	2471.9	47.5
0°-60°	4272.8	82.0
0°-90°	5209.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5209.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1926	1926	1926	1926	1926	
5°	1920	1918	1918	1928	1931	182
15°	1840	1849	1870	1894	1903	519
25°	1685	1707	1745	1780	1795	776
35°	1467	1491	1539	1575	1588	917
45°	1196	1222	1261	1291	1299	922
55°	892	911	937	959	967	795
65°	562	573	592	597	606	558
75°	256	259	269	274	278	276
85°	47	56	56	52	54	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1925.7	1925.7	1925.7	1925.7	1925.7
2.5°	1927.5	1923.8	1920.1	1927.5	1931.3
5°	1920.1	1918.2	1918.2	1927.5	1931.3
7.5°	1907.0	1907.0	1912.6	1925.7	1929.4
10°	1890.2	1893.9	1901.4	1920.1	1925.7
12.5°	1867.8	1875.3	1888.3	1910.7	1918.2
15°	1839.8	1849.2	1869.7	1893.9	1903.3
17.5°	1808.1	1821.2	1847.3	1875.3	1884.6
20°	1770.8	1787.6	1817.4	1849.2	1860.3
22.5°	1729.7	1750.3	1783.8	1817.4	1830.5
25°	1684.9	1707.3	1744.7	1780.1	1795.0
27.5°	1638.3	1660.7	1701.7	1737.2	1752.1
30°	1582.3	1608.4	1651.4	1688.7	1701.7
32.5°	1528.2	1554.3	1599.1	1632.7	1645.8
35°	1466.6	1490.9	1539.4	1574.9	1587.9
37.5°	1401.3	1429.3	1476.0	1507.7	1518.9
40°	1337.9	1362.1	1406.9	1438.6	1449.8
42.5°	1267.0	1293.1	1337.9	1365.9	1375.2
45°	1196.1	1222.2	1261.4	1291.2	1298.7
47.5°	1123.3	1147.6	1186.7	1211.0	1218.5
50°	1044.9	1067.3	1104.6	1128.9	1138.2
52.5°	970.3	990.8	1022.5	1043.1	1048.7
55°	891.9	910.6	936.7	959.1	966.6
57.5°	808.0	828.5	852.7	871.4	877.0
60°	727.7	744.5	765.0	781.8	783.7
62.5°	649.3	656.8	675.5	690.4	692.3
65°	561.6	572.8	591.5	597.1	606.4
67.5°	481.4	488.9	503.8	511.3	518.7
70°	399.3	404.9	419.8	429.2	431.0
72.5°	328.4	330.3	341.5	348.9	350.8
75°	255.6	259.4	268.7	274.3	278.0
77.5°	194.1	197.8	205.3	209.0	209.0
80°	136.2	141.8	149.3	151.1	153.0
82.5°	87.7	95.2	100.8	102.6	98.9
85°	46.6	56.0	56.0	52.2	54.1
87.5°	16.8	20.5	22.4	24.3	24.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)