

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: P297016

Luminaire Tested: **D3X-WG-55L83050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297016
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-55L83050-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: 5479.0 lumens
Efficiency: N/A
Efficacy: 139.8 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

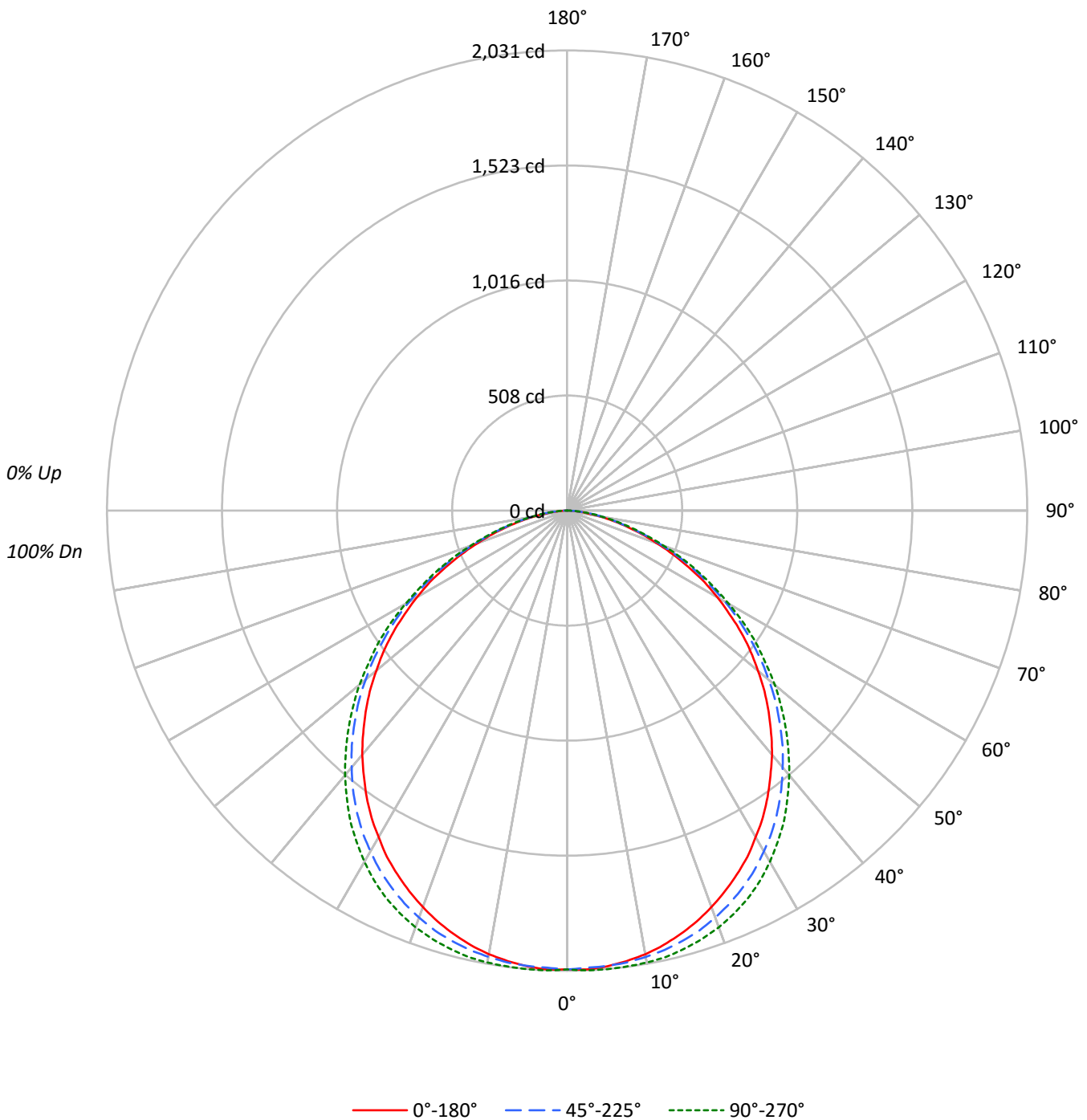
Input Watts (W): 39.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2725	2725	2725
5°	2728	2725	2744
10°	2716	2732	2767
15°	2696	2739	2789
20°	2667	2737	2802
25°	2631	2724	2803
30°	2586	2699	2781
35°	2534	2660	2743
40°	2472	2599	2679
45°	2394	2525	2599
50°	2301	2432	2506
55°	2201	2311	2385
60°	2060	2165	2218
65°	1881	1981	2031
70°	1652	1737	1784
75°	1398	1469	1520
80°	1110	1216	1247
85°	758	909	878



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.5	3.5
10°-20°	555.6	10.1
20°-30°	844.4	15.4
30°-40°	1007.5	18.4
40°-50°	1017.6	18.6
50°-60°	876.7	16.0
60°-70°	611.2	11.2
70°-80°	302.9	5.5
80°-90°	70.6	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°	1592.5	29.1
0°-40°	2600.0	47.5
0°-60°	4494.3	82.0
0°-90°	5479.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5479.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2026	2026	2026	2026	2026	
5°	2020	2018	2018	2027	2031	192
15°	1935	1945	1967	1992	2002	546
25°	1772	1796	1835	1872	1888	816
35°	1543	1568	1619	1656	1670	964
45°	1258	1286	1327	1358	1366	970
55°	938	958	985	1009	1017	836
65°	591	602	622	628	638	587
75°	269	273	283	288	292	290
85°	49	59	59	55	57	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2025.5	2025.5	2025.5	2025.5	2025.5
2.5°	2027.4	2023.5	2019.6	2027.4	2031.4
5°	2019.6	2017.6	2017.6	2027.4	2031.4
7.5°	2005.8	2005.8	2011.7	2025.5	2029.4
10°	1988.2	1992.1	2000.0	2019.6	2025.5
12.5°	1964.6	1972.5	1986.2	2009.8	2017.6
15°	1935.2	1945.0	1966.6	1992.1	2001.9
17.5°	1901.8	1915.6	1943.0	1972.5	1982.3
20°	1862.6	1880.2	1911.6	1945.0	1956.8
22.5°	1819.4	1841.0	1876.3	1911.6	1925.4
25°	1772.3	1795.8	1835.1	1872.4	1888.1
27.5°	1723.2	1746.8	1790.0	1827.2	1842.9
30°	1664.3	1691.8	1737.0	1776.2	1790.0
32.5°	1607.4	1634.9	1682.0	1717.3	1731.1
35°	1542.7	1568.2	1619.2	1656.5	1670.2
37.5°	1474.0	1503.4	1552.5	1585.8	1597.6
40°	1407.2	1432.7	1479.8	1513.2	1525.0
42.5°	1332.6	1360.1	1407.2	1436.7	1446.5
45°	1258.1	1285.5	1326.8	1358.2	1366.0
47.5°	1181.5	1207.0	1248.3	1273.8	1281.6
50°	1099.1	1122.6	1161.9	1187.4	1197.2
52.5°	1020.6	1042.2	1075.5	1097.1	1103.0
55°	938.2	957.8	985.3	1008.8	1016.7
57.5°	849.8	871.4	896.9	916.6	922.5
60°	765.4	783.1	804.7	822.4	824.3
62.5°	683.0	690.9	710.5	726.2	728.1
65°	590.8	602.5	622.2	628.1	637.9
67.5°	506.4	514.2	529.9	537.8	545.6
70°	420.0	425.9	441.6	451.4	453.4
72.5°	345.4	347.4	359.2	367.0	369.0
75°	268.9	272.8	282.6	288.5	292.4
77.5°	204.1	208.0	215.9	219.8	219.8
80°	143.3	149.2	157.0	159.0	160.9
82.5°	92.2	100.1	106.0	107.9	104.0
85°	49.1	58.9	58.9	55.0	56.9
87.5°	17.7	21.6	23.6	25.5	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)