

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: P297017

Luminaire Tested: **D3X-WG-55L83050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297017
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-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5531.0 lumens
Efficiency: N/A
Efficacy: 137.6 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

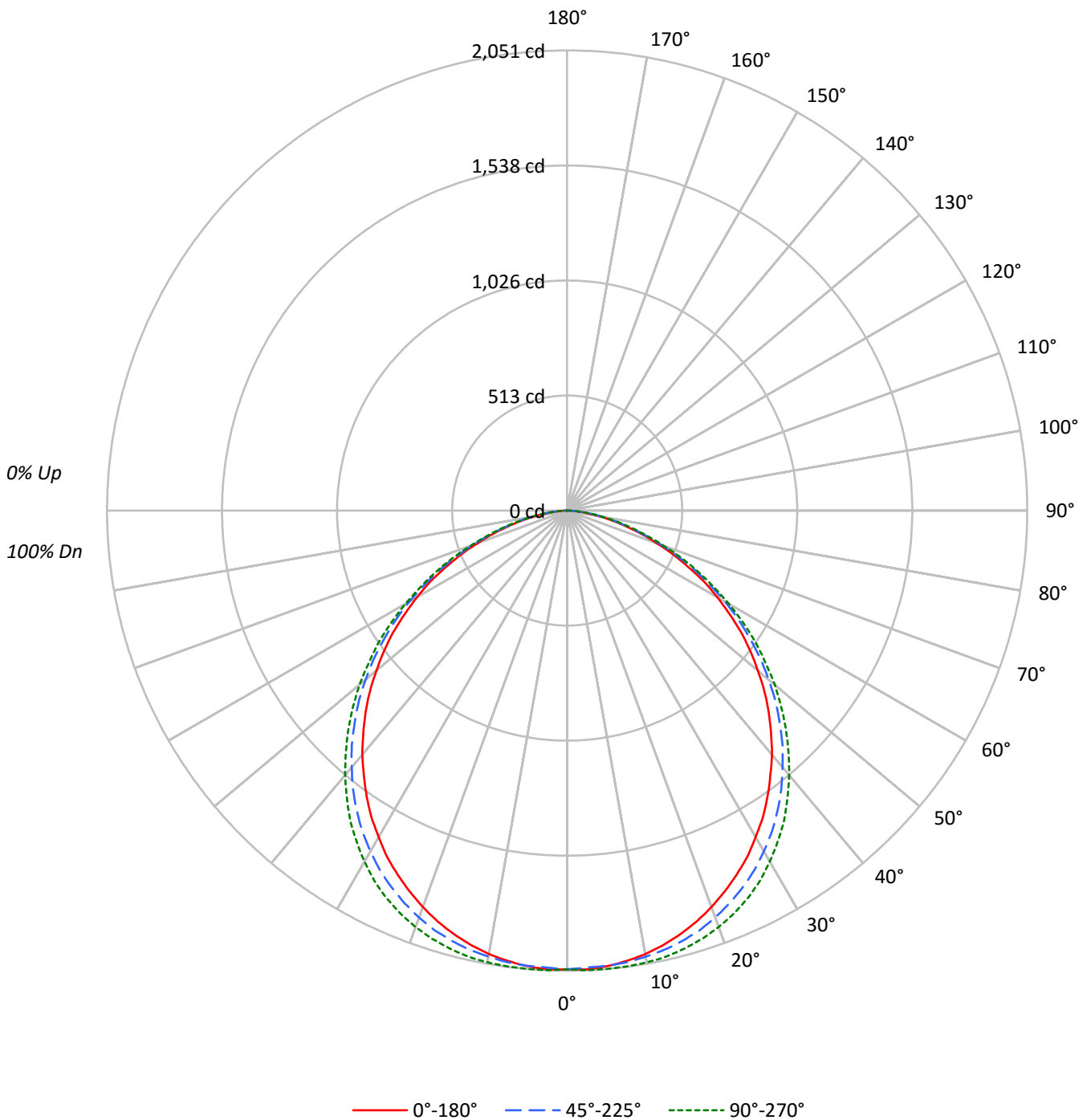
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2751	2751	2751
5°	2754	2751	2770
10°	2742	2758	2794
15°	2721	2765	2815
20°	2692	2763	2828
25°	2656	2750	2830
30°	2610	2724	2807
35°	2558	2685	2769
40°	2495	2624	2704
45°	2417	2549	2624
50°	2322	2455	2530
55°	2222	2333	2407
60°	2079	2186	2239
65°	1899	2000	2050
70°	1668	1754	1801
75°	1411	1483	1535
80°	1120	1228	1259
85°	764	917	888



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.3	3.5
10°-20°	560.9	10.1
20°-30°	852.4	15.4
30°-40°	1017.1	18.4
40°-50°	1027.3	18.6
50°-60°	885.1	16.0
60°-70°	617.0	11.2
70°-80°	305.7	5.5
80°-90°	71.3	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°	1607.6	29.1
0°-40°	2624.7	47.5
0°-60°	4537.0	82.0
0°-90°	5531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5531.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2045	2045	2045	2045	2045	
5°	2039	2037	2037	2047	2051	194
15°	1954	1964	1985	2011	2021	551
25°	1789	1813	1852	1890	1906	824
35°	1557	1583	1635	1672	1686	973
45°	1270	1298	1339	1371	1379	979
55°	947	967	995	1018	1026	844
65°	596	608	628	634	644	592
75°	271	275	285	291	295	293
85°	50	59	59	56	58	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2044.7	2044.7	2044.7	2044.7	2044.7
2.5°	2046.7	2042.7	2038.7	2046.7	2050.6
5°	2038.7	2036.8	2036.8	2046.7	2050.6
7.5°	2024.9	2024.9	2030.8	2044.7	2048.7
10°	2007.0	2011.0	2018.9	2038.7	2044.7
12.5°	1983.3	1991.2	2005.1	2028.8	2036.8
15°	1953.6	1963.5	1985.3	2011.0	2020.9
17.5°	1919.9	1933.7	1961.5	1991.2	2001.1
20°	1880.2	1898.1	1929.8	1963.5	1975.3
22.5°	1836.7	1858.5	1894.1	1929.8	1943.6
25°	1789.1	1812.9	1852.5	1890.2	1906.0
27.5°	1739.6	1763.4	1806.9	1844.6	1860.4
30°	1680.1	1707.9	1753.4	1793.1	1806.9
32.5°	1622.7	1650.4	1698.0	1733.6	1747.5
35°	1557.3	1583.1	1634.6	1672.2	1686.1
37.5°	1488.0	1517.7	1567.2	1600.9	1612.8
40°	1420.6	1446.3	1493.9	1527.6	1539.5
42.5°	1345.3	1373.0	1420.6	1450.3	1460.2
45°	1270.0	1297.7	1339.4	1371.1	1379.0
47.5°	1192.7	1218.5	1260.1	1285.9	1293.8
50°	1109.5	1133.3	1172.9	1198.7	1208.6
52.5°	1030.3	1052.1	1085.7	1107.5	1113.5
55°	947.1	966.9	994.6	1018.4	1026.3
57.5°	857.9	879.7	905.5	925.3	931.2
60°	772.7	790.5	812.3	830.2	832.1
62.5°	689.5	697.4	717.2	733.1	735.1
65°	596.4	608.3	628.1	634.0	643.9
67.5°	511.2	519.1	534.9	542.9	550.8
70°	424.0	429.9	445.8	455.7	457.7
72.5°	348.7	350.7	362.6	370.5	372.5
75°	271.4	275.4	285.3	291.2	295.2
77.5°	206.1	210.0	217.9	221.9	221.9
80°	144.6	150.6	158.5	160.5	162.5
82.5°	93.1	101.0	107.0	109.0	105.0
85°	49.5	59.4	59.4	55.5	57.5
87.5°	17.8	21.8	23.8	25.8	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)