

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: P297092

Luminaire Tested: **D3X-WG-55L82765-LD5-UNV-24-T1-W2A-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297092  
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-6500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5454.0 lumens  
Efficiency: N/A  
Efficacy: 136.3 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

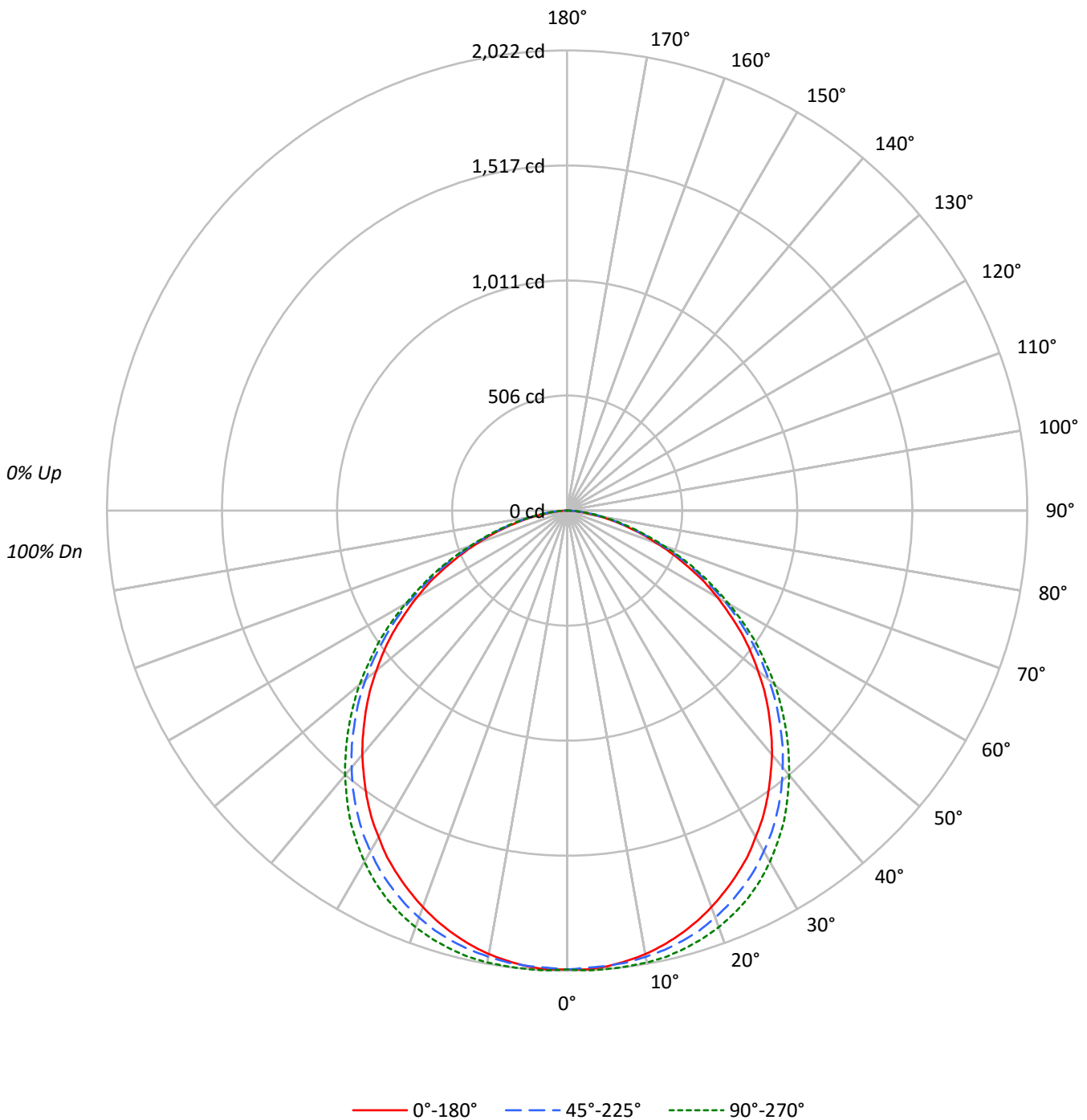
Input Watts (W): 40  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2713	2713	2713
5°	2715	2713	2731
10°	2704	2720	2755
15°	2683	2727	2776
20°	2655	2725	2789
25°	2619	2712	2790
30°	2574	2686	2768
35°	2522	2647	2731
40°	2460	2587	2666
45°	2383	2513	2587
50°	2290	2421	2495
55°	2191	2301	2374
60°	2050	2155	2208
65°	1872	1972	2022
70°	1645	1729	1775
75°	1392	1462	1513
80°	1105	1211	1241
85°	753	905	875



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.6	3.5
10°-20°	553.1	10.1
20°-30°	840.5	15.4
30°-40°	1002.9	18.4
40°-50°	1013.0	18.6
50°-60°	872.7	16.0
60°-70°	608.4	11.2
70°-80°	301.5	5.5
80°-90°	70.3	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°	1585.2	29.1
0°-40°	2588.1	47.5
0°-60°	4473.8	82.0
0°-90°	5454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5454.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2016	2016	2016	2016	2016	
5°	2010	2008	2008	2018	2022	191
15°	1926	1936	1958	1983	1993	543
25°	1764	1788	1827	1864	1880	813
35°	1536	1561	1612	1649	1663	960
45°	1252	1280	1321	1352	1360	965
55°	934	953	981	1004	1012	832
65°	588	600	619	625	635	584
75°	268	272	281	287	291	289
85°	49	59	59	55	57	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2016.2	2016.2	2016.2	2016.2	2016.2
2.5°	2018.2	2014.3	2010.4	2018.2	2022.1
5°	2010.4	2008.4	2008.4	2018.2	2022.1
7.5°	1996.7	1996.7	2002.6	2016.2	2020.1
10°	1979.1	1983.0	1990.8	2010.4	2016.2
12.5°	1955.7	1963.5	1977.2	2000.6	2008.4
15°	1926.4	1936.1	1957.6	1983.0	1992.8
17.5°	1893.1	1906.8	1934.2	1963.5	1973.2
20°	1854.1	1871.7	1902.9	1936.1	1947.8
22.5°	1811.1	1832.6	1867.7	1902.9	1916.6
25°	1764.2	1787.6	1826.7	1863.8	1879.5
27.5°	1715.4	1738.8	1781.8	1818.9	1834.5
30°	1656.7	1684.1	1729.0	1768.1	1781.8
32.5°	1600.1	1627.4	1674.3	1709.5	1723.2
35°	1535.6	1561.0	1611.8	1648.9	1662.6
37.5°	1467.2	1496.5	1545.4	1578.6	1590.3
40°	1400.8	1426.2	1473.1	1506.3	1518.0
42.5°	1326.6	1353.9	1400.8	1430.1	1439.9
45°	1252.3	1279.7	1320.7	1352.0	1359.8
47.5°	1176.1	1201.5	1242.6	1268.0	1275.8
50°	1094.1	1117.5	1156.6	1182.0	1191.8
52.5°	1015.9	1037.4	1070.6	1092.1	1098.0
55°	933.9	953.4	980.8	1004.2	1012.0
57.5°	846.0	867.4	892.8	912.4	918.2
60°	761.9	779.5	801.0	818.6	820.6
62.5°	679.9	687.7	707.2	722.9	724.8
65°	588.1	599.8	619.3	625.2	635.0
67.5°	504.1	511.9	527.5	535.3	543.1
70°	418.1	424.0	439.6	449.4	451.3
72.5°	343.9	345.8	357.5	365.3	367.3
75°	267.7	271.6	281.3	287.2	291.1
77.5°	203.2	207.1	214.9	218.8	218.8
80°	142.6	148.5	156.3	158.3	160.2
82.5°	91.8	99.6	105.5	107.5	103.5
85°	48.8	58.6	58.6	54.7	56.7
87.5°	17.6	21.5	23.4	25.4	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)