

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: P297088

Luminaire Tested: **D3X-WG-55L82765-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297088
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-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: 5301.0 lumens
Efficiency: N/A
Efficacy: 135.6 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

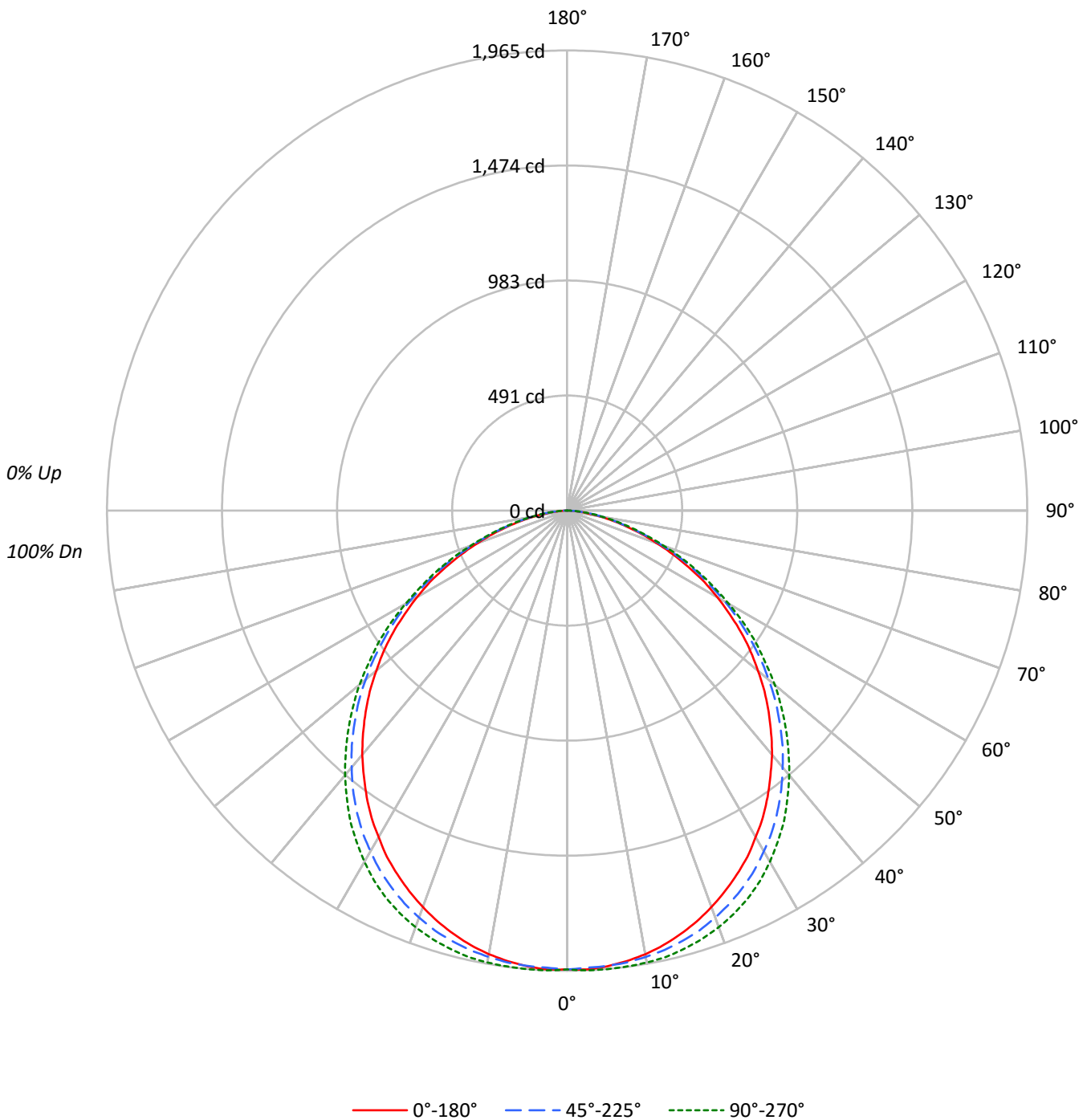
Input Watts (W): 39.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2637	2637	2637
5°	2639	2637	2655
10°	2628	2644	2677
15°	2608	2650	2698
20°	2580	2648	2711
25°	2546	2636	2712
30°	2502	2611	2691
35°	2451	2573	2654
40°	2391	2515	2591
45°	2316	2443	2515
50°	2226	2353	2425
55°	2129	2236	2307
60°	1993	2095	2146
65°	1820	1917	1965
70°	1599	1681	1725
75°	1352	1421	1471
80°	1074	1177	1206
85°	733	880	851



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.2	3.5
10°-20°	537.6	10.1
20°-30°	816.9	15.4
30°-40°	974.8	18.4
40°-50°	984.5	18.6
50°-60°	848.2	16.0
60°-70°	591.3	11.2
70°-80°	293.0	5.5
80°-90°	68.3	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°	1540.7	29.1
0°-40°	2515.5	47.5
0°-60°	4348.3	82.0
0°-90°	5301.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5301.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1960	1960	1960	1960	1960	
5°	1954	1952	1952	1962	1965	186
15°	1872	1882	1903	1927	1937	528
25°	1715	1738	1776	1812	1827	790
35°	1492	1517	1567	1603	1616	933
45°	1217	1244	1284	1314	1322	938
55°	908	927	953	976	984	809
65°	572	583	602	608	617	568
75°	260	264	273	279	283	280
85°	48	57	57	53	55	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1959.7	1959.7	1959.7	1959.7	1959.7
2.5°	1961.6	1957.8	1954.0	1961.6	1965.4
5°	1954.0	1952.1	1952.1	1961.6	1965.4
7.5°	1940.7	1940.7	1946.4	1959.7	1963.5
10°	1923.6	1927.4	1935.0	1954.0	1959.7
12.5°	1900.8	1908.4	1921.7	1944.5	1952.1
15°	1872.3	1881.8	1902.7	1927.4	1936.9
17.5°	1840.0	1853.3	1879.9	1908.4	1917.9
20°	1802.1	1819.1	1849.5	1881.8	1893.2
22.5°	1760.3	1781.2	1815.4	1849.5	1862.8
25°	1714.7	1737.5	1775.5	1811.6	1826.7
27.5°	1667.2	1690.0	1731.8	1767.9	1783.1
30°	1610.3	1636.9	1680.5	1718.5	1731.8
32.5°	1555.2	1581.8	1627.4	1661.5	1674.8
35°	1492.5	1517.2	1566.6	1602.7	1616.0
37.5°	1426.1	1454.6	1502.0	1534.3	1545.7
40°	1361.5	1386.2	1431.8	1464.1	1475.4
42.5°	1289.4	1315.9	1361.5	1390.0	1399.5
45°	1217.2	1243.8	1283.7	1314.0	1321.6
47.5°	1143.1	1167.8	1207.7	1232.4	1240.0
50°	1063.4	1086.2	1124.2	1148.8	1158.3
52.5°	987.4	1008.3	1040.6	1061.5	1067.2
55°	907.7	926.7	953.2	976.0	983.6
57.5°	822.2	843.1	867.8	886.8	892.5
60°	740.6	757.7	778.6	795.6	797.5
62.5°	660.8	668.4	687.4	702.6	704.5
65°	571.6	583.0	602.0	607.6	617.1
67.5°	489.9	497.5	512.7	520.3	527.9
70°	406.4	412.1	427.3	436.7	438.6
72.5°	334.2	336.1	347.5	355.1	357.0
75°	260.1	263.9	273.4	279.1	282.9
77.5°	197.5	201.3	208.9	212.7	212.7
80°	138.6	144.3	151.9	153.8	155.7
82.5°	89.2	96.8	102.5	104.4	100.6
85°	47.5	57.0	57.0	53.2	55.1
87.5°	17.1	20.9	22.8	24.7	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)