

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: P297437

Luminaire Tested: **D3X-WO-55L93050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297437
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-55L93050-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5183.0 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

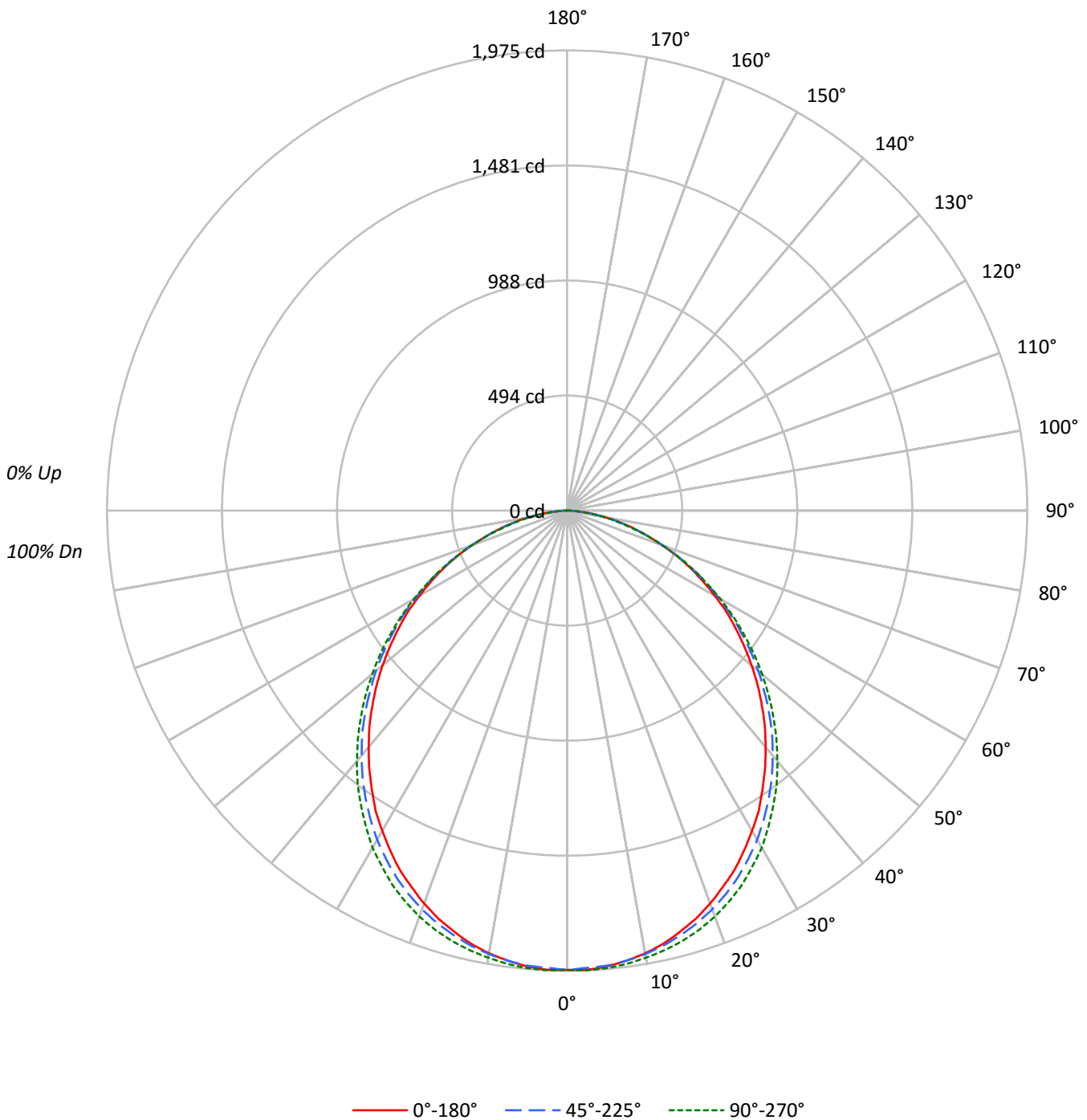
Input Watts (W): 39.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2652	2652	2652
5°	2653	2648	2662
10°	2636	2641	2662
15°	2607	2627	2663
20°	2570	2607	2655
25°	2525	2576	2634
30°	2466	2534	2596
35°	2400	2478	2535
40°	2328	2410	2466
45°	2249	2332	2382
50°	2164	2244	2284
55°	2073	2138	2171
60°	1969	2020	2044
65°	1857	1884	1896
70°	1703	1724	1703
75°	1534	1525	1480
80°	1299	1285	1244
85°	971	943	835



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.6	3.6
10°-20°	533.1	10.3
20°-30°	799.4	15.4
30°-40°	941.4	18.2
40°-50°	941.5	18.2
50°-60°	812.4	15.7
60°-70°	584.6	11.3
70°-80°	310.1	6.0
80°-90°	74.0	1.4
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°	1519.1	29.3
0°-40°	2460.5	47.5
0°-60°	4214.4	81.3
0°-90°	5183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5183.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1971	1971	1971	1971	1971	
5°	1964	1962	1961	1968	1971	186
15°	1872	1877	1886	1905	1912	528
25°	1701	1711	1736	1765	1774	782
35°	1461	1479	1508	1535	1543	914
45°	1182	1198	1226	1247	1252	912
55°	884	892	911	927	925	791
65°	583	585	592	595	595	577
75°	295	292	293	286	285	314
85°	63	63	61	56	54	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1971.2	1971.2	1971.2	1971.2	1971.2
2.5°	1972.9	1969.4	1964.2	1971.2	1974.7
5°	1964.2	1962.5	1960.7	1967.7	1971.2
7.5°	1948.5	1950.2	1948.5	1959.0	1962.5
10°	1929.3	1931.0	1932.8	1945.0	1948.5
12.5°	1904.8	1906.6	1911.8	1927.5	1932.8
15°	1871.7	1876.9	1885.6	1904.8	1911.8
17.5°	1836.8	1843.7	1856.0	1878.7	1885.6
20°	1794.8	1803.6	1821.0	1845.5	1854.2
22.5°	1747.7	1756.4	1780.9	1807.1	1815.8
25°	1700.6	1711.0	1735.5	1765.2	1773.9
27.5°	1644.7	1658.7	1684.9	1714.5	1721.5
30°	1587.1	1599.3	1630.7	1658.7	1670.9
32.5°	1529.5	1541.7	1571.4	1599.3	1608.0
35°	1461.4	1478.8	1508.5	1534.7	1543.4
37.5°	1395.0	1410.7	1442.2	1468.4	1477.1
40°	1325.2	1339.2	1372.3	1396.8	1403.8
42.5°	1255.3	1269.3	1302.5	1321.7	1328.7
45°	1182.0	1197.7	1225.7	1246.6	1251.9
47.5°	1108.7	1120.9	1147.1	1166.3	1173.3
50°	1033.6	1045.8	1072.0	1087.7	1091.2
52.5°	958.5	967.3	991.7	1005.7	1010.9
55°	883.5	892.2	911.4	927.1	925.4
57.5°	811.9	815.4	834.6	845.0	845.0
60°	731.6	735.0	750.8	757.7	759.5
62.5°	656.5	661.7	673.9	675.7	675.7
65°	583.2	584.9	591.9	595.4	595.4
67.5°	509.8	508.1	515.1	515.1	513.3
70°	433.0	436.5	438.2	434.7	433.0
72.5°	363.2	361.4	361.4	359.7	359.7
75°	295.1	291.6	293.3	286.3	284.6
77.5°	232.2	227.0	225.2	221.7	218.2
80°	167.6	167.6	165.9	162.4	160.6
82.5°	111.7	111.7	110.0	106.5	103.0
85°	62.9	62.9	61.1	55.9	54.1
87.5°	21.0	21.0	21.0	21.0	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)