

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: P297436

Luminaire Tested: **D3X-WO-55L93050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297436
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-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5094.0 lumens
Efficiency: N/A
Efficacy: 129.6 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

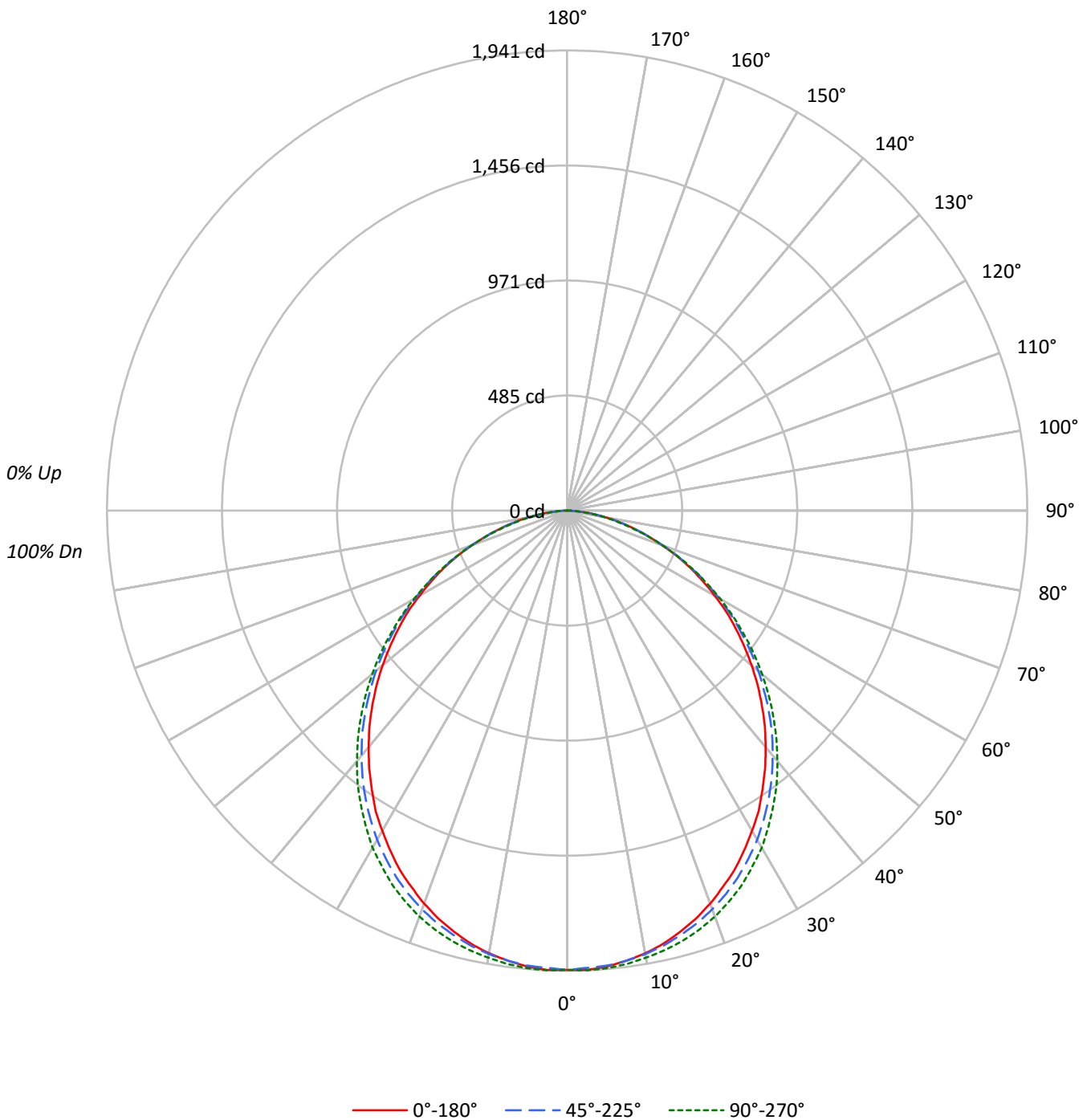
Input Watts (W): 39.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	41	39					39			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2607	2607	2607
5°	2607	2603	2617
10°	2591	2595	2616
15°	2562	2582	2617
20°	2526	2563	2609
25°	2481	2532	2588
30°	2423	2490	2551
35°	2359	2435	2492
40°	2288	2369	2423
45°	2210	2292	2341
50°	2126	2205	2245
55°	2037	2101	2133
60°	1935	1986	2009
65°	1825	1852	1863
70°	1674	1694	1674
75°	1508	1499	1454
80°	1276	1263	1223
85°	954	928	821



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.4	3.6
10°-20°	524.0	10.3
20°-30°	785.6	15.4
30°-40°	925.2	18.2
40°-50°	925.4	18.2
50°-60°	798.4	15.7
60°-70°	574.5	11.3
70°-80°	304.7	6.0
80°-90°	72.7	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°	1493.1	29.3
0°-40°	2418.3	47.5
0°-60°	4142.1	81.3
0°-90°	5094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1937	1937	1937	1937	1937	
5°	1930	1929	1927	1934	1937	183
15°	1840	1845	1853	1872	1879	519
25°	1671	1682	1706	1735	1743	769
35°	1436	1453	1483	1508	1517	899
45°	1162	1177	1205	1225	1230	896
55°	868	877	896	911	910	777
65°	573	575	582	585	585	567
75°	290	287	288	281	280	309
85°	62	62	60	55	53	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1937.3	1937.3	1937.3	1937.3	1937.3
2.5°	1939.1	1935.6	1930.5	1937.3	1940.8
5°	1930.5	1928.8	1927.0	1933.9	1937.3
7.5°	1915.0	1916.8	1915.0	1925.3	1928.8
10°	1896.2	1897.9	1899.6	1911.6	1915.0
12.5°	1872.1	1873.9	1879.0	1894.4	1899.6
15°	1839.5	1844.7	1853.3	1872.1	1879.0
17.5°	1805.2	1812.1	1824.1	1846.4	1853.3
20°	1764.0	1772.6	1789.8	1813.8	1822.4
22.5°	1717.7	1726.3	1750.3	1776.0	1784.6
25°	1671.4	1681.7	1705.7	1734.9	1743.4
27.5°	1616.5	1630.2	1655.9	1685.1	1692.0
30°	1559.8	1571.8	1602.7	1630.2	1642.2
32.5°	1503.2	1515.2	1544.4	1571.8	1580.4
35°	1436.3	1453.4	1482.6	1508.3	1516.9
37.5°	1371.1	1386.5	1417.4	1443.1	1451.7
40°	1302.4	1316.2	1348.8	1372.8	1379.6
42.5°	1233.8	1247.5	1280.1	1299.0	1305.9
45°	1161.7	1177.2	1204.6	1225.2	1230.4
47.5°	1089.6	1101.7	1127.4	1146.3	1153.1
50°	1015.9	1027.9	1053.6	1069.1	1072.5
52.5°	942.1	950.7	974.7	988.4	993.6
55°	868.3	876.9	895.7	911.2	909.5
57.5°	797.9	801.4	820.2	830.5	830.5
60°	719.0	722.4	737.9	744.7	746.5
62.5°	645.2	650.4	662.4	664.1	664.1
65°	573.1	574.9	581.7	585.1	585.1
67.5°	501.1	499.4	506.2	506.2	504.5
70°	425.6	429.0	430.7	427.3	425.6
72.5°	356.9	355.2	355.2	353.5	353.5
75°	290.0	286.6	288.3	281.4	279.7
77.5°	228.2	223.1	221.4	217.9	214.5
80°	164.7	164.7	163.0	159.6	157.9
82.5°	109.8	109.8	108.1	104.7	101.2
85°	61.8	61.8	60.1	54.9	53.2
87.5°	20.6	20.6	20.6	20.6	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)