

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: P297255

Luminaire Tested: **D3X-WG-74L92765-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297255
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-74L92765-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6334.0 lumens
Efficiency: N/A
Efficacy: 112.9 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

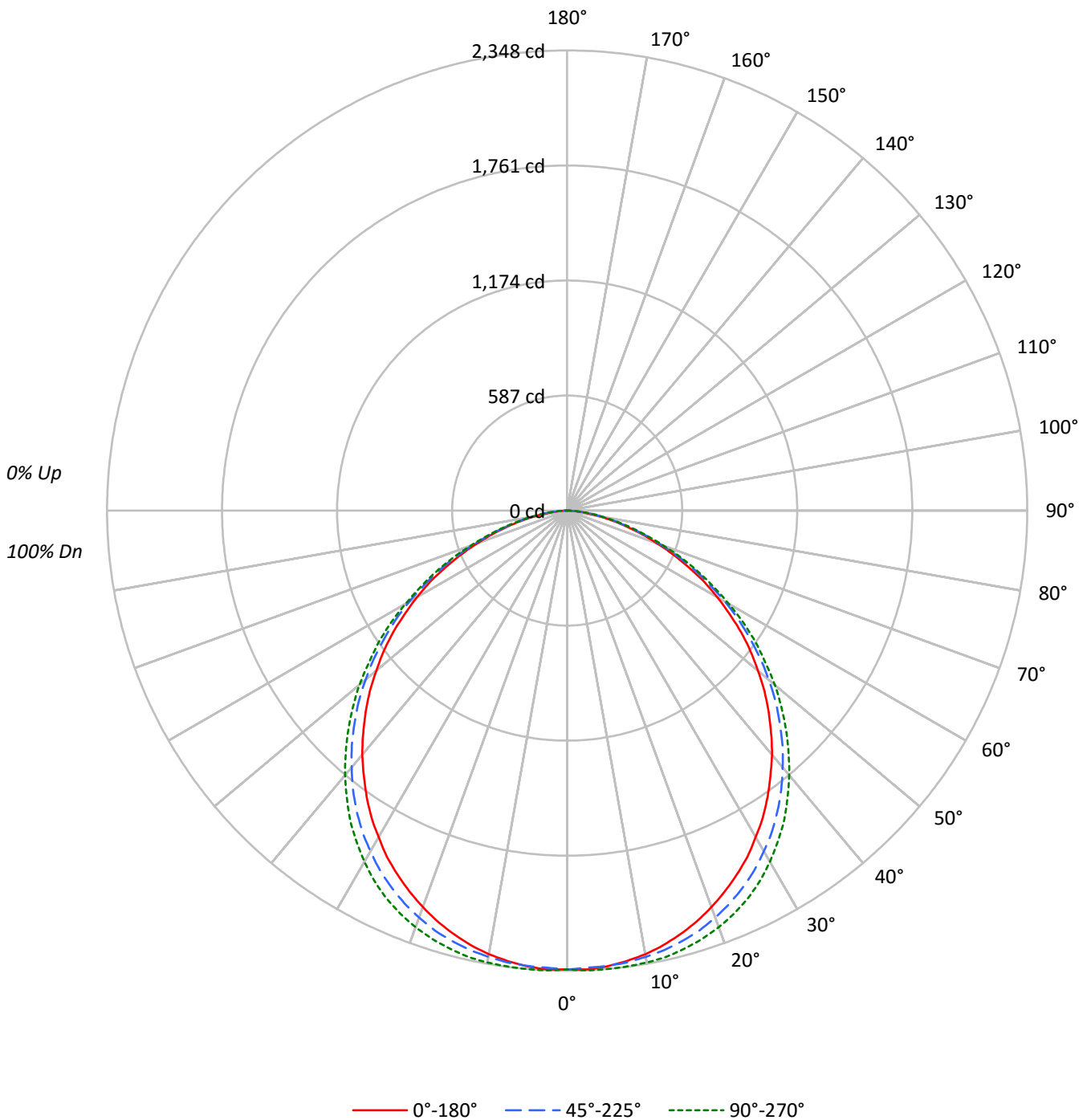
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3150	3150	3150
5°	3153	3150	3172
10°	3140	3159	3199
15°	3116	3167	3224
20°	3083	3164	3239
25°	3042	3150	3240
30°	2989	3120	3215
35°	2929	3075	3172
40°	2857	3005	3097
45°	2767	2919	3005
50°	2660	2812	2897
55°	2544	2672	2757
60°	2381	2503	2565
65°	2174	2290	2348
70°	1910	2008	2062
75°	1616	1698	1758
80°	1283	1406	1442
85°	875	1051	1016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.5	3.5
10°-20°	642.3	10.1
20°-30°	976.1	15.4
30°-40°	1164.8	18.4
40°-50°	1176.4	18.6
50°-60°	1013.5	16.0
60°-70°	706.6	11.2
70°-80°	350.1	5.5
80°-90°	81.6	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°	1841.0	29.1
0°-40°	3005.7	47.5
0°-60°	5195.7	82.0
0°-90°	6334.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6334.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2342	2342	2342	2342	2342	
5°	2335	2332	2332	2344	2348	222
15°	2237	2248	2274	2303	2314	631
25°	2049	2076	2122	2165	2183	944
35°	1783	1813	1872	1915	1931	1115
45°	1454	1486	1534	1570	1579	1121
55°	1085	1107	1139	1166	1175	967
65°	683	697	719	726	737	678
75°	311	315	327	334	338	335
85°	57	68	68	64	66	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2341.5	2341.5	2341.5	2341.5	2341.5
2.5°	2343.8	2339.3	2334.7	2343.8	2348.4
5°	2334.7	2332.5	2332.5	2343.8	2348.4
7.5°	2318.9	2318.9	2325.7	2341.5	2346.1
10°	2298.4	2303.0	2312.0	2334.7	2341.5
12.5°	2271.2	2280.3	2296.2	2323.4	2332.5
15°	2237.2	2248.5	2273.5	2303.0	2314.3
17.5°	2198.6	2214.5	2246.3	2280.3	2291.6
20°	2153.2	2173.6	2209.9	2248.5	2262.1
22.5°	2103.3	2128.3	2169.1	2209.9	2225.8
25°	2048.9	2076.1	2121.5	2164.6	2182.7
27.5°	1992.1	2019.4	2069.3	2112.4	2130.5
30°	1924.1	1955.8	2008.0	2053.4	2069.3
32.5°	1858.3	1890.0	1944.5	1985.3	2001.2
35°	1783.4	1812.9	1871.9	1915.0	1930.9
37.5°	1704.0	1738.0	1794.7	1833.3	1846.9
40°	1626.8	1656.3	1710.8	1749.4	1763.0
42.5°	1540.6	1572.4	1626.8	1660.9	1672.2
45°	1454.4	1486.2	1533.8	1570.1	1579.2
47.5°	1365.9	1395.4	1443.0	1472.5	1481.6
50°	1270.6	1297.8	1343.2	1372.7	1384.1
52.5°	1179.8	1204.8	1243.4	1268.3	1275.1
55°	1084.6	1107.2	1139.0	1166.2	1175.3
57.5°	982.5	1007.4	1036.9	1059.6	1066.4
60°	884.9	905.3	930.3	950.7	953.0
62.5°	789.6	798.7	821.4	839.5	841.8
65°	683.0	696.6	719.3	726.1	737.4
67.5°	585.4	594.5	612.6	621.7	630.8
70°	485.6	492.4	510.5	521.9	524.1
72.5°	399.3	401.6	415.2	424.3	426.6
75°	310.8	315.4	326.7	333.5	338.1
77.5°	236.0	240.5	249.6	254.1	254.1
80°	165.6	172.4	181.5	183.8	186.1
82.5°	106.6	115.7	122.5	124.8	120.3
85°	56.7	68.1	68.1	63.5	65.8
87.5°	20.4	25.0	27.2	29.5	29.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)