

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: P296836

Luminaire Tested: **D3X-WD-74L82765-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-74L82765-LD5-UNV-24-T1-W2A-5000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7185.0 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

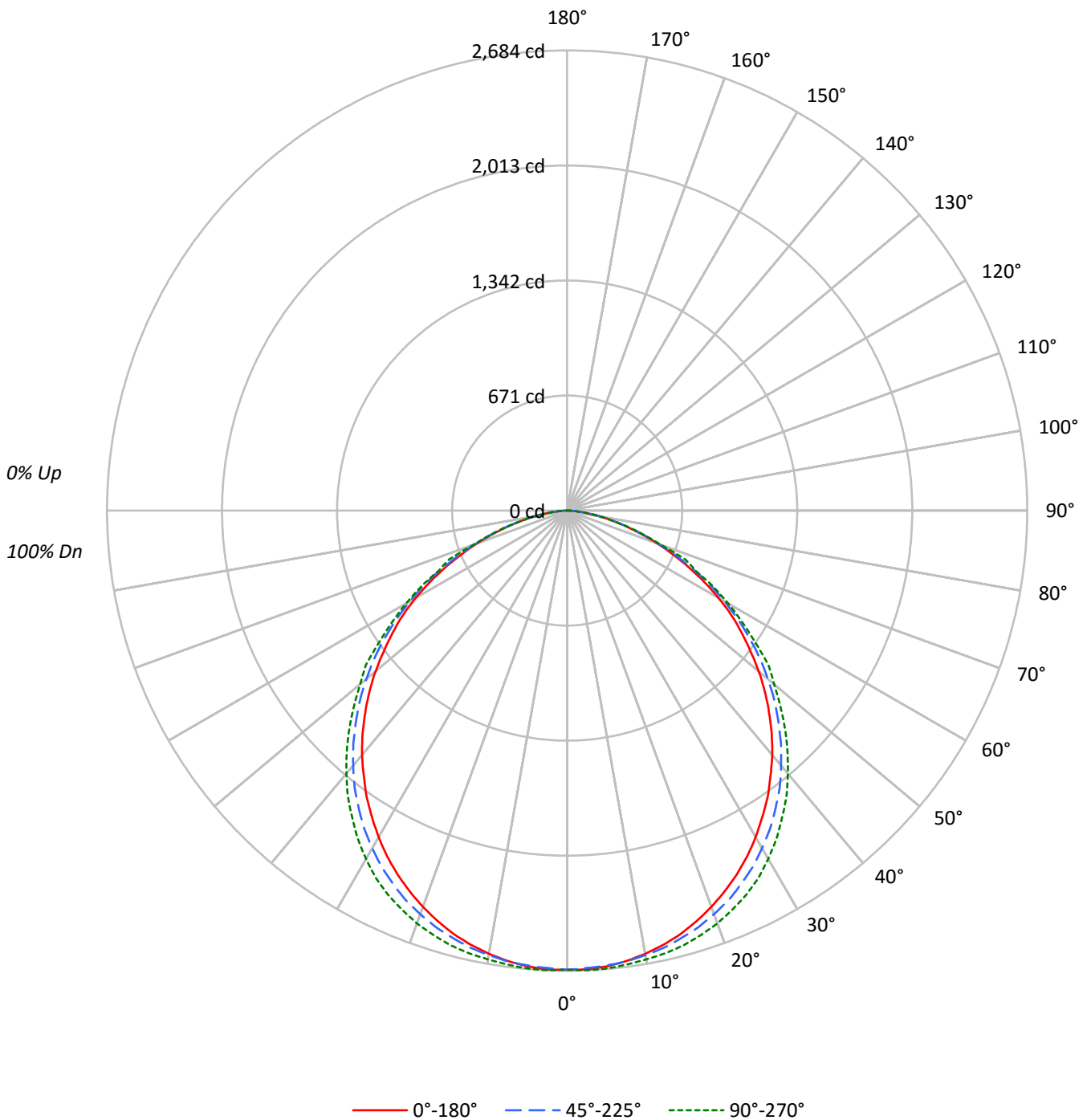
Input Watts (W): 56.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
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	48	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	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3604	3604	3604
5°	3604	3597	3621
10°	3586	3596	3631
15°	3562	3595	3656
20°	3521	3588	3669
25°	3475	3567	3670
30°	3416	3533	3645
35°	3349	3481	3591
40°	3269	3410	3518
45°	3169	3316	3419
50°	3054	3200	3297
55°	2915	3048	3139
60°	2747	2851	2921
65°	2495	2577	2627
70°	2190	2241	2272
75°	1850	1876	1890
80°	1478	1498	1458
85°	994	1034	994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.8	3.5
10°-20°	730.0	10.2
20°-30°	1107.6	15.4
30°-40°	1322.3	18.4
40°-50°	1338.7	18.6
50°-60°	1157.2	16.1
60°-70°	802.0	11.2
70°-80°	388.0	5.4
80°-90°	85.3	1.2
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°	2091.4	29.1
0°-40°	3413.7	47.5
0°-60°	5909.6	82.2
0°-90°	7185.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7185.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2678	2678	2678	2678	2678	
5°	2668	2666	2663	2676	2681	253
15°	2557	2562	2581	2612	2624	721
25°	2341	2356	2403	2452	2472	1078
35°	2039	2057	2119	2173	2186	1274
45°	1665	1689	1743	1786	1797	1284
55°	1243	1256	1299	1353	1338	1111
65°	784	791	810	822	825	776
75°	356	358	361	358	364	382
85°	64	70	67	64	64	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2678.5	2678.5	2678.5	2678.5	2678.5
2.5°	2678.5	2675.9	2670.8	2678.5	2683.7
5°	2668.2	2665.6	2663.0	2675.9	2681.1
7.5°	2650.2	2650.2	2652.7	2665.6	2670.8
10°	2624.4	2627.0	2632.1	2652.7	2657.9
12.5°	2593.4	2598.6	2611.5	2634.7	2645.0
15°	2557.4	2562.5	2580.6	2611.5	2624.4
17.5°	2510.9	2521.3	2547.0	2583.1	2596.0
20°	2459.4	2472.3	2505.8	2547.0	2562.5
22.5°	2402.7	2415.6	2459.4	2503.2	2518.7
25°	2340.8	2356.3	2402.7	2451.7	2472.3
27.5°	2273.8	2291.8	2343.4	2394.9	2415.6
30°	2199.0	2219.6	2273.8	2327.9	2346.0
32.5°	2119.1	2139.7	2201.6	2253.2	2271.2
35°	2039.2	2057.2	2119.1	2173.2	2186.1
37.5°	1948.9	1969.6	2036.6	2083.0	2101.1
40°	1861.3	1881.9	1941.2	1987.6	2003.1
42.5°	1765.9	1786.5	1845.8	1889.7	1902.5
45°	1665.4	1688.6	1742.7	1786.5	1796.8
47.5°	1564.8	1582.9	1639.6	1678.3	1686.0
50°	1459.1	1477.2	1528.7	1567.4	1575.1
52.5°	1348.3	1376.6	1417.9	1446.2	1479.8
55°	1242.6	1255.5	1299.3	1353.4	1338.0
57.5°	1136.9	1144.6	1180.7	1203.9	1209.1
60°	1020.9	1031.2	1059.5	1072.4	1085.3
62.5°	899.7	907.4	941.0	953.9	959.0
65°	783.7	791.4	809.5	822.4	825.0
67.5°	665.1	672.9	688.3	698.6	745.0
70°	556.8	562.0	569.7	590.4	577.5
72.5°	453.7	456.3	464.0	464.0	466.6
75°	355.8	358.3	360.9	358.3	363.5
77.5°	265.5	270.7	273.3	270.7	268.1
80°	190.8	195.9	193.3	188.2	188.2
82.5°	123.7	126.3	123.7	121.2	121.2
85°	64.4	69.6	67.0	64.4	64.4
87.5°	23.2	25.8	28.4	30.9	30.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)