

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: P296837

Luminaire Tested: **D3X-WD-74L82765-LD5-UNV-24-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296837
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-5500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7256.0 lumens
Efficiency: N/A
Efficacy: 128.2 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

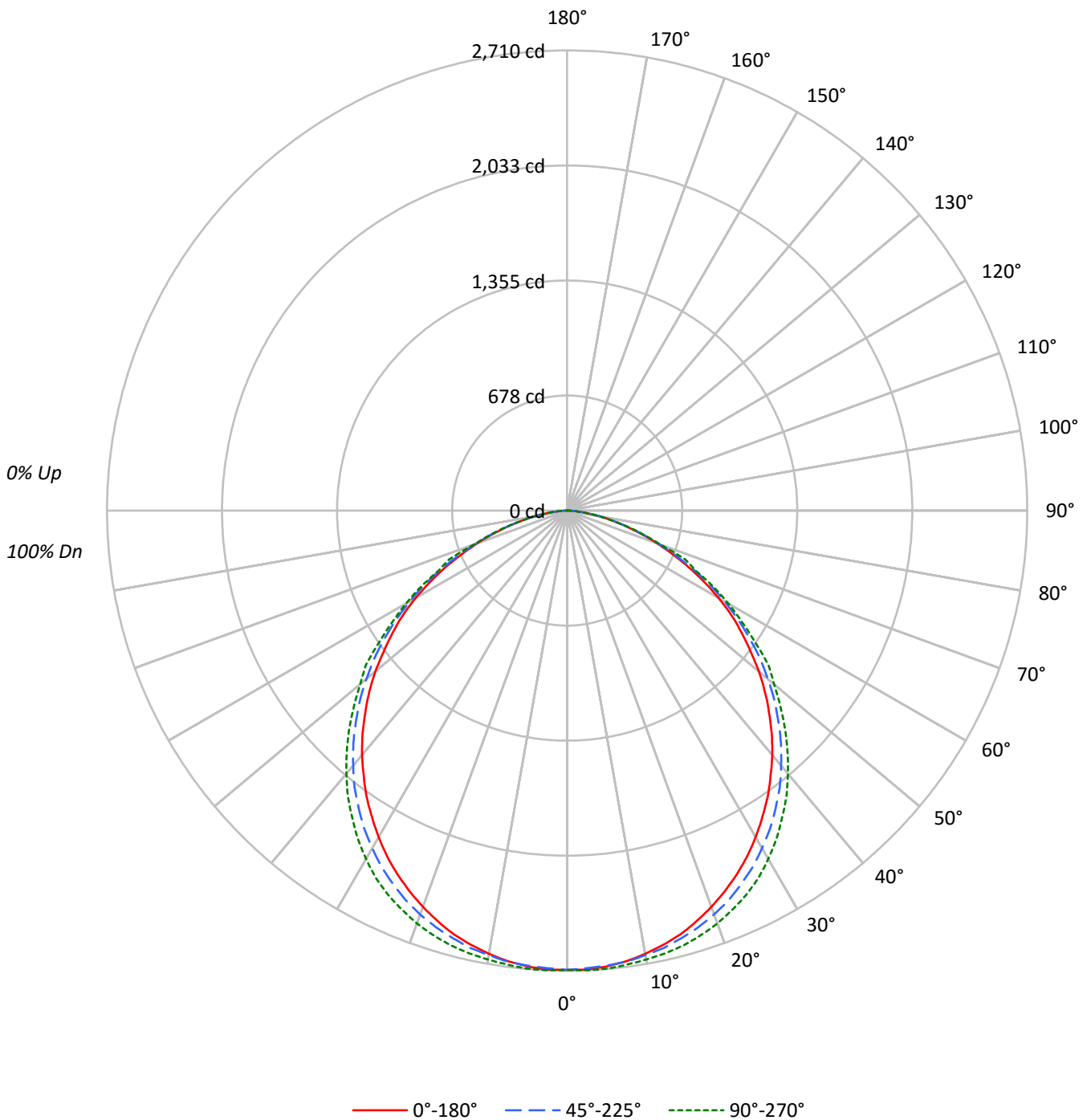
Input Watts (W): 56.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	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	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	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°	3640	3640	3640
5°	3639	3632	3657
10°	3621	3632	3667
15°	3597	3630	3692
20°	3556	3623	3705
25°	3509	3602	3707
30°	3450	3567	3681
35°	3382	3515	3626
40°	3302	3443	3553
45°	3200	3349	3453
50°	3085	3231	3330
55°	2944	3078	3170
60°	2774	2879	2950
65°	2520	2603	2652
70°	2212	2264	2294
75°	1868	1895	1908
80°	1493	1513	1473
85°	1005	1045	1005



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.4	3.5
10°-20°	737.2	10.2
20°-30°	1118.5	15.4
30°-40°	1335.4	18.4
40°-50°	1351.9	18.6
50°-60°	1168.6	16.1
60°-70°	809.9	11.2
70°-80°	391.9	5.4
80°-90°	86.2	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°	2112.1	29.1
0°-40°	3447.5	47.5
0°-60°	5968.0	82.2
0°-90°	7256.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7256.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2705	2705	2705	2705	2705	
5°	2695	2692	2689	2702	2708	256
15°	2583	2588	2606	2637	2650	728
25°	2364	2380	2426	2476	2497	1089
35°	2059	2078	2140	2195	2208	1286
45°	1682	1705	1760	1804	1815	1297
55°	1255	1268	1312	1367	1351	1122
65°	791	799	818	830	833	783
75°	359	362	364	362	367	386
85°	65	70	68	65	65	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2705.0	2705.0	2705.0	2705.0	2705.0
2.5°	2705.0	2702.4	2697.2	2705.0	2710.2
5°	2694.6	2692.0	2689.4	2702.4	2707.6
7.5°	2676.3	2676.3	2679.0	2692.0	2697.2
10°	2650.3	2652.9	2658.1	2679.0	2684.2
12.5°	2619.1	2624.3	2637.3	2660.7	2671.1
15°	2582.6	2587.8	2606.1	2637.3	2650.3
17.5°	2535.8	2546.2	2572.2	2608.7	2621.7
20°	2483.7	2496.7	2530.6	2572.2	2587.8
22.5°	2426.4	2439.4	2483.7	2528.0	2543.6
25°	2363.9	2379.6	2426.4	2475.9	2496.7
27.5°	2296.2	2314.5	2366.5	2418.6	2439.4
30°	2220.7	2241.6	2296.2	2350.9	2369.1
32.5°	2140.0	2160.9	2223.3	2275.4	2293.6
35°	2059.3	2077.6	2140.0	2194.7	2207.7
37.5°	1968.2	1989.0	2056.7	2103.6	2121.8
40°	1879.7	1900.5	1960.4	2007.3	2022.9
42.5°	1783.4	1804.2	1864.1	1908.3	1921.3
45°	1681.8	1705.3	1759.9	1804.2	1814.6
47.5°	1580.3	1598.5	1655.8	1694.8	1702.7
50°	1473.6	1491.8	1543.8	1582.9	1590.7
52.5°	1361.6	1390.2	1431.9	1460.5	1494.4
55°	1254.9	1267.9	1312.1	1366.8	1351.2
57.5°	1148.1	1155.9	1192.4	1215.8	1221.0
60°	1031.0	1041.4	1070.0	1083.0	1096.1
62.5°	908.6	916.4	950.3	963.3	968.5
65°	791.4	799.3	817.5	830.5	833.1
67.5°	671.7	679.5	695.1	705.5	752.4
70°	562.3	567.6	575.4	596.2	583.2
72.5°	458.2	460.8	468.6	468.6	471.2
75°	359.3	361.9	364.5	361.9	367.1
77.5°	268.2	273.4	276.0	273.4	270.8
80°	192.7	197.9	195.3	190.1	190.1
82.5°	125.0	127.6	125.0	122.4	122.4
85°	65.1	70.3	67.7	65.1	65.1
87.5°	23.4	26.0	28.6	31.2	31.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)