

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: P296835

Luminaire Tested: **D3X-WD-74L82765-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296835
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-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7089.0 lumens
Efficiency: N/A
Efficacy: 126.4 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

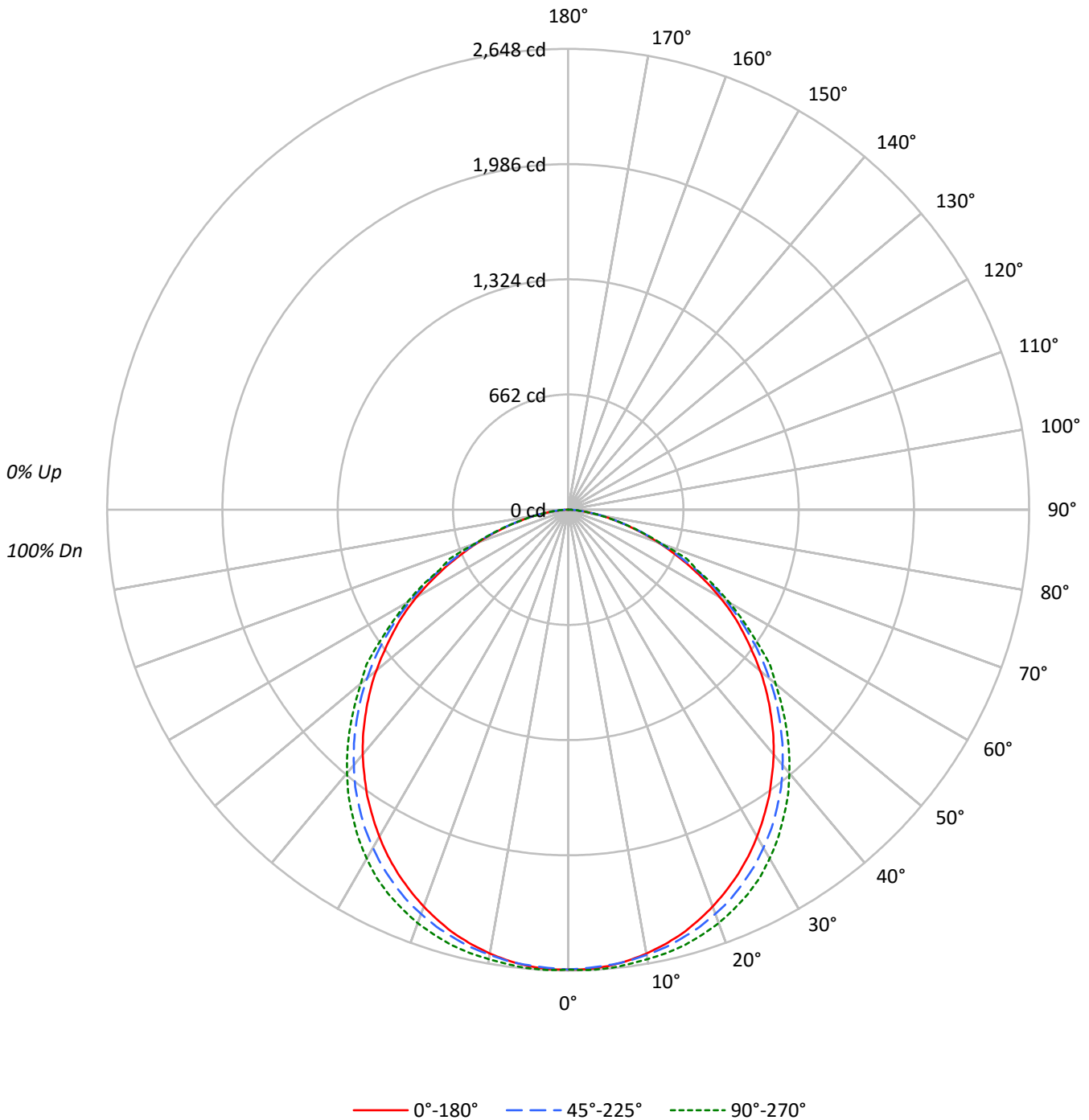
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3556	3556	3556
5°	3556	3549	3573
10°	3538	3548	3583
15°	3515	3547	3607
20°	3474	3540	3620
25°	3429	3519	3621
30°	3371	3485	3596
35°	3305	3434	3543
40°	3225	3364	3471
45°	3127	3272	3373
50°	3013	3157	3253
55°	2876	3007	3097
60°	2710	2813	2882
65°	2462	2543	2591
70°	2161	2211	2242
75°	1825	1851	1864
80°	1458	1478	1439
85°	982	1020	982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.5	3.5
10°-20°	720.2	10.2
20°-30°	1092.8	15.4
30°-40°	1304.7	18.4
40°-50°	1320.8	18.6
50°-60°	1141.7	16.1
60°-70°	791.3	11.2
70°-80°	382.9	5.4
80°-90°	84.2	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°	2063.5	29.1
0°-40°	3368.1	47.5
0°-60°	5830.6	82.2
0°-90°	7089.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7089.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2643	2643	2643	2643	2643	
5°	2633	2630	2628	2640	2645	250
15°	2523	2528	2546	2577	2589	711
25°	2310	2325	2371	2419	2439	1064
35°	2012	2030	2091	2144	2157	1257
45°	1643	1666	1719	1763	1773	1267
55°	1226	1239	1282	1335	1320	1096
65°	773	781	799	811	814	765
75°	351	354	356	354	359	377
85°	64	69	66	64	64	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2642.7	2642.7	2642.7	2642.7	2642.7
2.5°	2642.7	2640.2	2635.1	2642.7	2647.8
5°	2632.6	2630.0	2627.5	2640.2	2645.3
7.5°	2614.7	2614.7	2617.3	2630.0	2635.1
10°	2589.3	2591.9	2596.9	2617.3	2622.4
12.5°	2558.8	2563.9	2576.6	2599.5	2609.7
15°	2523.2	2528.3	2546.1	2576.6	2589.3
17.5°	2477.4	2487.6	2513.0	2548.6	2561.3
20°	2426.5	2439.2	2472.3	2513.0	2528.3
22.5°	2370.6	2383.3	2426.5	2469.8	2485.0
25°	2309.5	2324.8	2370.6	2418.9	2439.2
27.5°	2243.4	2261.2	2312.1	2362.9	2383.3
30°	2169.6	2190.0	2243.4	2296.8	2314.6
32.5°	2090.8	2111.1	2172.2	2223.0	2240.9
35°	2011.9	2029.7	2090.8	2144.2	2156.9
37.5°	1922.9	1943.3	2009.4	2055.2	2073.0
40°	1836.4	1856.8	1915.3	1961.1	1976.3
42.5°	1742.3	1762.7	1821.2	1864.4	1877.1
45°	1643.1	1666.0	1719.4	1762.7	1772.8
47.5°	1543.9	1561.7	1617.7	1655.8	1663.5
50°	1439.6	1457.4	1508.3	1546.5	1554.1
52.5°	1330.3	1358.2	1398.9	1426.9	1460.0
55°	1226.0	1238.7	1281.9	1335.4	1320.1
57.5°	1121.7	1129.3	1164.9	1187.8	1192.9
60°	1007.2	1017.4	1045.4	1058.1	1070.8
62.5°	887.7	895.3	928.4	941.1	946.2
65°	773.2	780.9	798.7	811.4	813.9
67.5°	656.2	663.9	679.1	689.3	735.1
70°	549.4	554.5	562.1	582.5	569.8
72.5°	447.7	450.2	457.8	457.8	460.4
75°	351.0	353.6	356.1	353.6	358.6
77.5°	262.0	267.1	269.6	267.1	264.5
80°	188.2	193.3	190.8	185.7	185.7
82.5°	122.1	124.6	122.1	119.5	119.5
85°	63.6	68.7	66.1	63.6	63.6
87.5°	22.9	25.4	28.0	30.5	30.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)