

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: P297453

Luminaire Tested: **D3X-WO-74L93050-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297453
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-74L93050-LD5-UNV-24-T1-W2A-5000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6943.0 lumens
Efficiency: N/A
Efficacy: 121.0 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

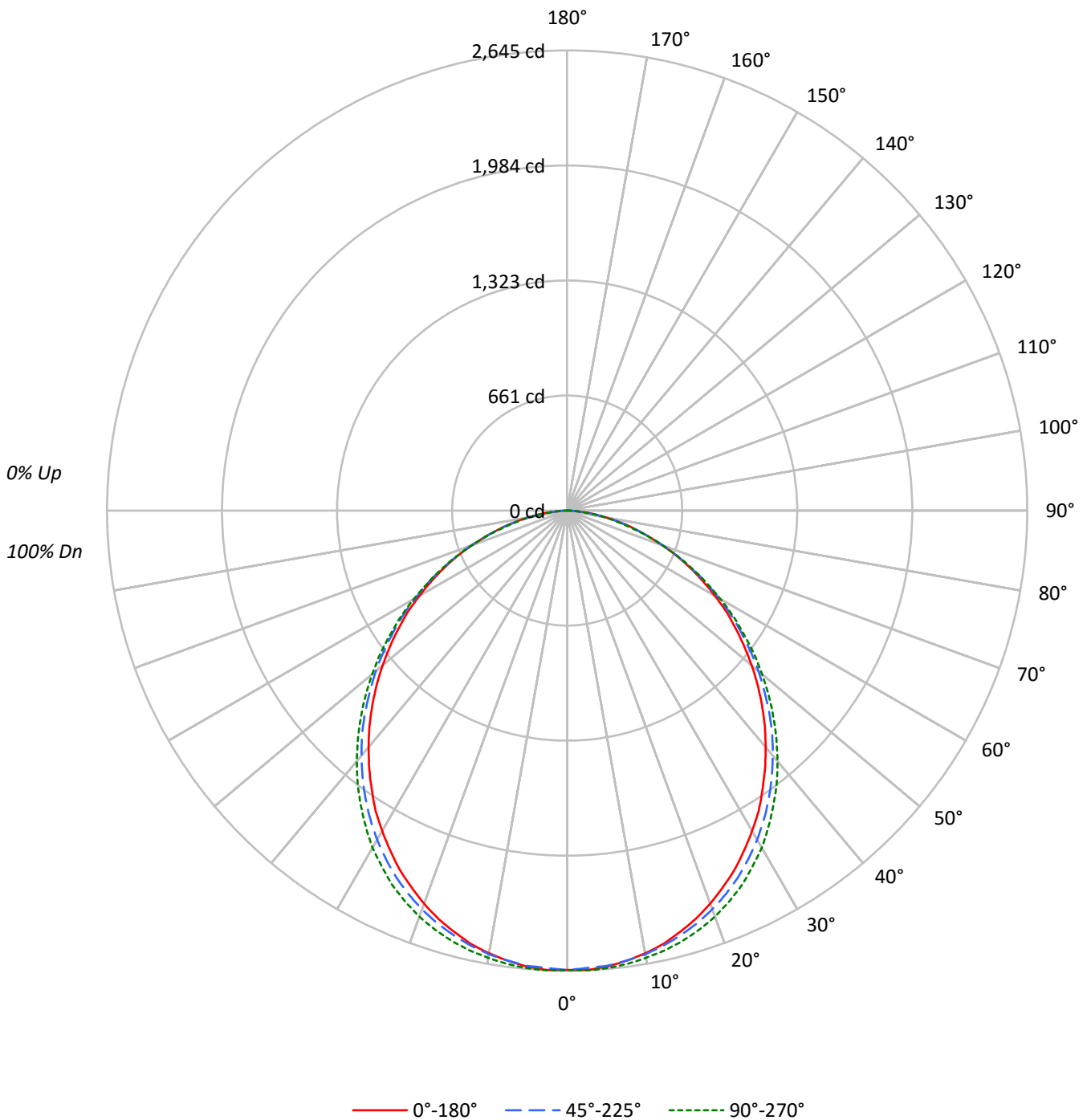
Input Watts (W): 57.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3553	3553	3553
5°	3554	3547	3566
10°	3531	3537	3566
15°	3492	3518	3567
20°	3443	3493	3556
25°	3382	3451	3528
30°	3303	3394	3478
35°	3215	3319	3396
40°	3118	3229	3303
45°	3013	3124	3191
50°	2898	3006	3060
55°	2776	2864	2908
60°	2637	2706	2738
65°	2487	2524	2539
70°	2282	2309	2282
75°	2055	2043	1982
80°	1740	1722	1667
85°	1300	1264	1119



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.0	3.6
10°-20°	714.2	10.3
20°-30°	1070.8	15.4
30°-40°	1261.0	18.2
40°-50°	1261.2	18.2
50°-60°	1088.2	15.7
60°-70°	783.1	11.3
70°-80°	415.3	6.0
80°-90°	99.1	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°	2035.0	29.3
0°-40°	3296.0	47.5
0°-60°	5645.5	81.3
0°-90°	6943.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6943.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2641	2641	2641	2641	2641	
5°	2631	2629	2626	2636	2641	250
15°	2507	2514	2526	2552	2561	707
25°	2278	2292	2325	2365	2376	1048
35°	1958	1981	2021	2056	2068	1225
45°	1583	1604	1642	1670	1677	1221
55°	1184	1195	1221	1242	1240	1059
65°	781	784	793	798	798	773
75°	395	391	393	384	381	421
85°	84	84	82	75	72	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2640.6	2640.6	2640.6	2640.6	2640.6
2.5°	2642.9	2638.2	2631.2	2640.6	2645.2
5°	2631.2	2628.9	2626.5	2635.9	2640.6
7.5°	2610.1	2612.5	2610.1	2624.2	2628.9
10°	2584.4	2586.8	2589.1	2605.5	2610.1
12.5°	2551.7	2554.0	2561.0	2582.1	2589.1
15°	2507.2	2514.3	2525.9	2551.7	2561.0
17.5°	2460.5	2469.8	2486.2	2516.6	2525.9
20°	2404.3	2416.0	2439.4	2472.2	2483.8
22.5°	2341.2	2352.9	2385.6	2420.7	2432.4
25°	2278.0	2292.1	2324.8	2364.6	2376.3
27.5°	2203.2	2221.9	2257.0	2296.7	2306.1
30°	2126.0	2142.4	2184.5	2221.9	2238.3
32.5°	2048.8	2065.2	2105.0	2142.4	2154.1
35°	1957.6	1981.0	2020.8	2055.8	2067.5
37.5°	1868.7	1889.8	1931.9	1967.0	1978.7
40°	1775.2	1793.9	1838.3	1871.1	1880.4
42.5°	1681.6	1700.3	1744.8	1770.5	1779.9
45°	1583.4	1604.4	1641.9	1669.9	1676.9
47.5°	1485.2	1501.5	1536.6	1562.3	1571.7
50°	1384.6	1401.0	1436.0	1457.1	1461.8
52.5°	1284.0	1295.7	1328.5	1347.2	1354.2
55°	1183.5	1195.1	1220.9	1241.9	1239.6
57.5°	1087.6	1092.2	1118.0	1132.0	1132.0
60°	980.0	984.7	1005.7	1015.1	1017.4
62.5°	879.4	886.4	902.8	905.1	905.1
65°	781.2	783.5	792.9	797.5	797.5
67.5°	682.9	680.6	690.0	690.0	687.6
70°	580.0	584.7	587.0	582.4	580.0
72.5°	486.5	484.1	484.1	481.8	481.8
75°	395.3	390.6	392.9	383.6	381.2
77.5°	311.1	304.0	301.7	297.0	292.4
80°	224.5	224.5	222.2	217.5	215.2
82.5°	149.7	149.7	147.3	142.7	138.0
85°	84.2	84.2	81.9	74.8	72.5
87.5°	28.1	28.1	28.1	28.1	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)