

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: P297310

Luminaire Tested: **D3X-WO-74L83050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297310
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-74L83050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7434.0 lumens
Efficiency: N/A
Efficacy: 134.9 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

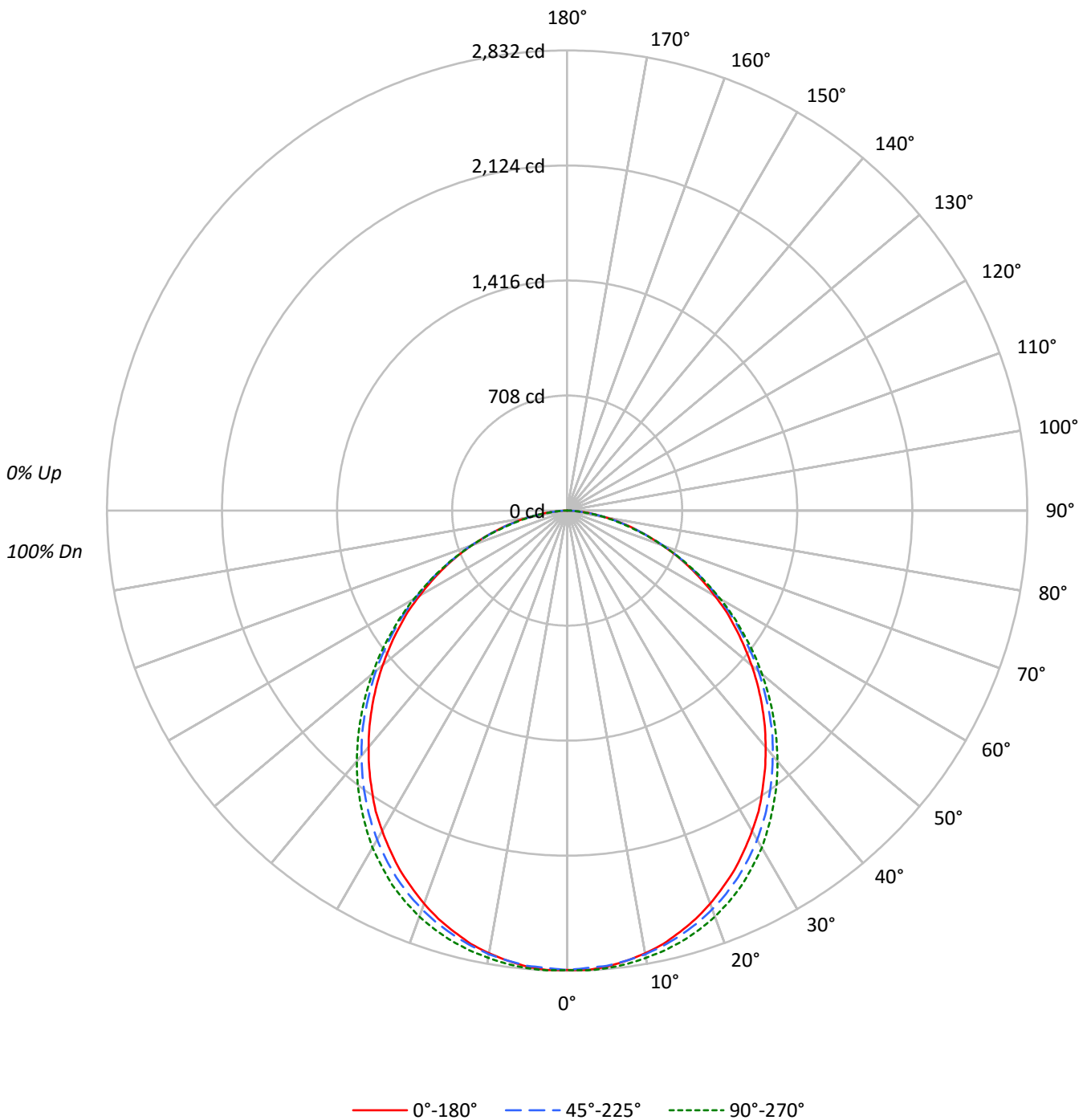
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P297310

CATALOG NUMBER: D3X-WO-74L83050-LD5-UNV-24-T1-W2A-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P297310

CATALOG NUMBER: D3X-WO-74L83050-LD5-UNV-24-T1-W2A-3500K

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°	3804	3804	3804
5°	3805	3798	3819
10°	3781	3788	3818
15°	3739	3767	3820
20°	3686	3740	3808
25°	3621	3695	3777
30°	3537	3634	3723
35°	3443	3554	3636
40°	3338	3457	3536
45°	3226	3345	3416
50°	3103	3219	3276
55°	2972	3066	3113
60°	2824	2898	2931
65°	2663	2703	2719
70°	2443	2473	2443
75°	2200	2187	2122
80°	1863	1843	1785
85°	1392	1352	1198



TEST NUMBER: P297310

CATALOG NUMBER: D3X-WO-74L83050-LD5-UNV-24-T1-W2A-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.7	3.6
10°-20°	764.7	10.3
20°-30°	1146.5	15.4
30°-40°	1350.2	18.2
40°-50°	1350.4	18.2
50°-60°	1165.2	15.7
60°-70°	838.4	11.3
70°-80°	444.7	6.0
80°-90°	106.1	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°	2178.9	29.3
0°-40°	3529.1	47.5
0°-60°	6044.8	81.3
0°-90°	7434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7434.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2827	2827	2827	2827	2827	
5°	2817	2815	2812	2822	2827	267
15°	2684	2692	2705	2732	2742	757
25°	2439	2454	2489	2532	2544	1122
35°	2096	2121	2164	2201	2214	1311
45°	1695	1718	1758	1788	1796	1308
55°	1267	1280	1307	1330	1327	1134
65°	836	839	849	854	854	827
75°	423	418	421	411	408	450
85°	90	90	88	80	78	109
90°	0	0	0	0	0	



TEST NUMBER: P297310

CATALOG NUMBER: D3X-WO-74L83050-LD5-UNV-24-T1-W2A-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2827.3	2827.3	2827.3	2827.3	2827.3
2.5°	2829.8	2824.8	2817.3	2827.3	2832.3
5°	2817.3	2814.8	2812.3	2822.3	2827.3
7.5°	2794.7	2797.2	2794.7	2809.8	2814.8
10°	2767.2	2769.7	2772.2	2789.7	2794.7
12.5°	2732.1	2734.6	2742.1	2764.7	2772.2
15°	2684.5	2692.1	2704.6	2732.1	2742.1
17.5°	2634.5	2644.5	2662.0	2694.6	2704.6
20°	2574.4	2586.9	2611.9	2647.0	2659.5
22.5°	2506.7	2519.3	2554.3	2591.9	2604.4
25°	2439.1	2454.2	2489.2	2531.8	2544.3
27.5°	2359.0	2379.0	2416.6	2459.2	2469.2
30°	2276.4	2293.9	2339.0	2379.0	2396.6
32.5°	2193.7	2211.2	2253.8	2293.9	2306.4
35°	2096.0	2121.1	2163.7	2201.2	2213.7
37.5°	2000.9	2023.4	2068.5	2106.1	2118.6
40°	1900.7	1920.8	1968.3	2003.4	2013.4
42.5°	1800.5	1820.6	1868.2	1895.7	1905.7
45°	1695.4	1717.9	1758.0	1788.0	1795.5
47.5°	1590.2	1607.7	1645.3	1672.8	1682.8
50°	1482.5	1500.0	1537.6	1560.1	1565.2
52.5°	1374.8	1387.3	1422.4	1442.4	1450.0
55°	1267.1	1279.7	1307.2	1329.8	1327.2
57.5°	1164.5	1169.5	1197.0	1212.1	1212.1
60°	1049.3	1054.3	1076.8	1086.8	1089.3
62.5°	941.6	949.1	966.6	969.1	969.1
65°	836.4	838.9	848.9	853.9	853.9
67.5°	731.2	728.7	738.8	738.8	736.2
70°	621.1	626.1	628.6	623.6	621.1
72.5°	520.9	518.4	518.4	515.9	515.9
75°	423.2	418.2	420.7	410.7	408.2
77.5°	333.1	325.6	323.0	318.0	313.0
80°	240.4	240.4	237.9	232.9	230.4
82.5°	160.3	160.3	157.8	152.8	147.8
85°	90.2	90.2	87.6	80.1	77.6
87.5°	30.1	30.1	30.1	30.1	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)