

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: P297311

Luminaire Tested: **D3X-WO-74L83050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297311
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-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7806.0 lumens
Efficiency: N/A
Efficacy: 138.4 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

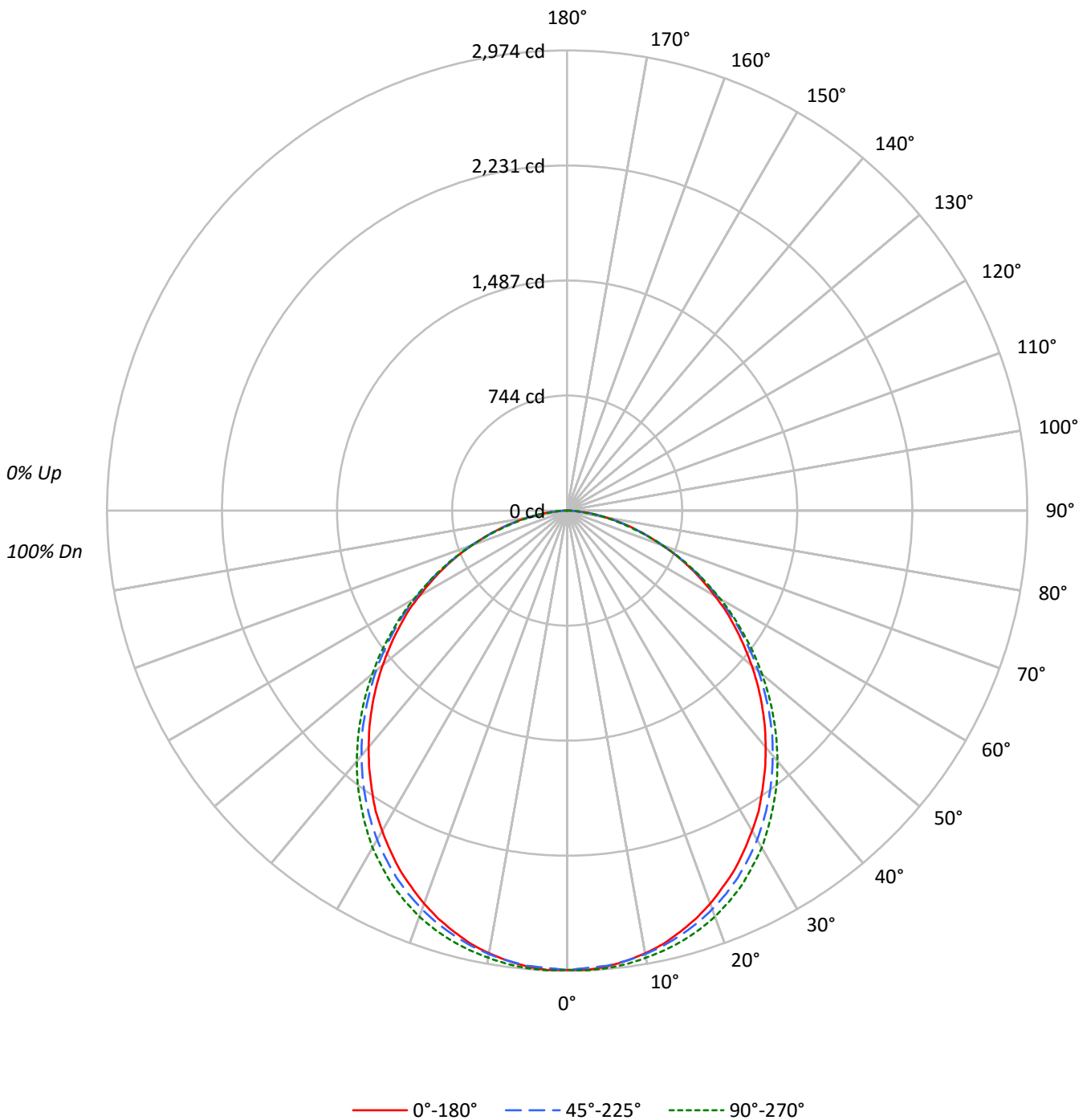
Input Watts (W): 56.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P297311

CATALOG NUMBER: D3X-WO-74L83050-LD5-UNV-24-T1-W2A-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P297311

CATALOG NUMBER: D3X-WO-74L83050-LD5-UNV-24-T1-W2A-4000K

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°	3994	3994	3994
5°	3995	3988	4010
10°	3970	3977	4009
15°	3927	3956	4011
20°	3871	3927	3999
25°	3802	3880	3966
30°	3714	3816	3910
35°	3615	3732	3818
40°	3505	3630	3713
45°	3387	3512	3588
50°	3258	3379	3440
55°	3121	3220	3269
60°	2965	3043	3078
65°	2796	2838	2855
70°	2565	2596	2565
75°	2310	2297	2228
80°	1956	1936	1874
85°	1462	1420	1258



TEST NUMBER: P297311

CATALOG NUMBER: D3X-WO-74L83050-LD5-UNV-24-T1-W2A-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.1	3.6
10°-20°	802.9	10.3
20°-30°	1203.9	15.4
30°-40°	1417.8	18.2
40°-50°	1418.0	18.2
50°-60°	1223.5	15.7
60°-70°	880.4	11.3
70°-80°	467.0	6.0
80°-90°	111.4	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°	2287.9	29.3
0°-40°	3705.7	47.5
0°-60°	6347.2	81.3
0°-90°	7806.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7806.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2969	2969	2969	2969	2969	
5°	2958	2956	2953	2964	2969	281
15°	2819	2827	2840	2869	2879	795
25°	2561	2577	2614	2658	2672	1178
35°	2201	2227	2272	2311	2324	1377
45°	1780	1804	1846	1878	1885	1373
55°	1331	1344	1373	1396	1394	1191
65°	878	881	891	897	897	869
75°	444	439	442	431	429	473
85°	95	95	92	84	82	114
90°	0	0	0	0	0	



TEST NUMBER: P297311

CATALOG NUMBER: D3X-WO-74L83050-LD5-UNV-24-T1-W2A-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2968.8	2968.8	2968.8	2968.8	2968.8
2.5°	2971.4	2966.1	2958.2	2968.8	2974.0
5°	2958.2	2955.6	2953.0	2963.5	2968.8
7.5°	2934.6	2937.2	2934.6	2950.4	2955.6
10°	2905.7	2908.3	2910.9	2929.3	2934.6
12.5°	2868.8	2871.5	2879.4	2903.0	2910.9
15°	2818.9	2826.8	2839.9	2868.8	2879.4
17.5°	2766.3	2776.8	2795.2	2829.4	2839.9
20°	2703.2	2716.3	2742.6	2779.4	2792.6
22.5°	2632.2	2645.3	2682.1	2721.6	2734.7
25°	2561.2	2577.0	2613.8	2658.5	2671.6
27.5°	2477.0	2498.1	2537.5	2582.2	2592.7
30°	2390.3	2408.7	2456.0	2498.1	2516.5
32.5°	2303.5	2321.9	2366.6	2408.7	2421.8
35°	2200.9	2227.2	2271.9	2311.4	2324.5
37.5°	2101.0	2124.7	2172.0	2211.5	2224.6
40°	1995.8	2016.9	2066.8	2103.6	2114.2
42.5°	1890.6	1911.7	1961.6	1990.6	2001.1
45°	1780.2	1803.9	1845.9	1877.5	1885.4
47.5°	1669.8	1688.2	1727.6	1756.5	1767.1
50°	1556.7	1575.1	1614.5	1638.2	1643.5
52.5°	1443.6	1456.8	1493.6	1514.6	1522.5
55°	1330.6	1343.7	1372.6	1396.3	1393.7
57.5°	1222.7	1228.0	1256.9	1272.7	1272.7
60°	1101.8	1107.0	1130.7	1141.2	1143.9
62.5°	988.7	996.6	1015.0	1017.6	1017.6
65°	878.3	880.9	891.4	896.7	896.7
67.5°	767.8	765.2	775.7	775.7	773.1
70°	652.1	657.4	660.0	654.8	652.1
72.5°	546.9	544.3	544.3	541.7	541.7
75°	444.4	439.1	441.8	431.2	428.6
77.5°	349.7	341.8	339.2	334.0	328.7
80°	252.4	252.4	249.8	244.5	241.9
82.5°	168.3	168.3	165.7	160.4	155.1
85°	94.7	94.7	92.0	84.1	81.5
87.5°	31.6	31.6	31.6	31.6	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)