

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: P297297

Luminaire Tested: **D3X-WO-55L83050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297297
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-55L83050-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5882.0 lumens
Efficiency: N/A
Efficacy: 146.3 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

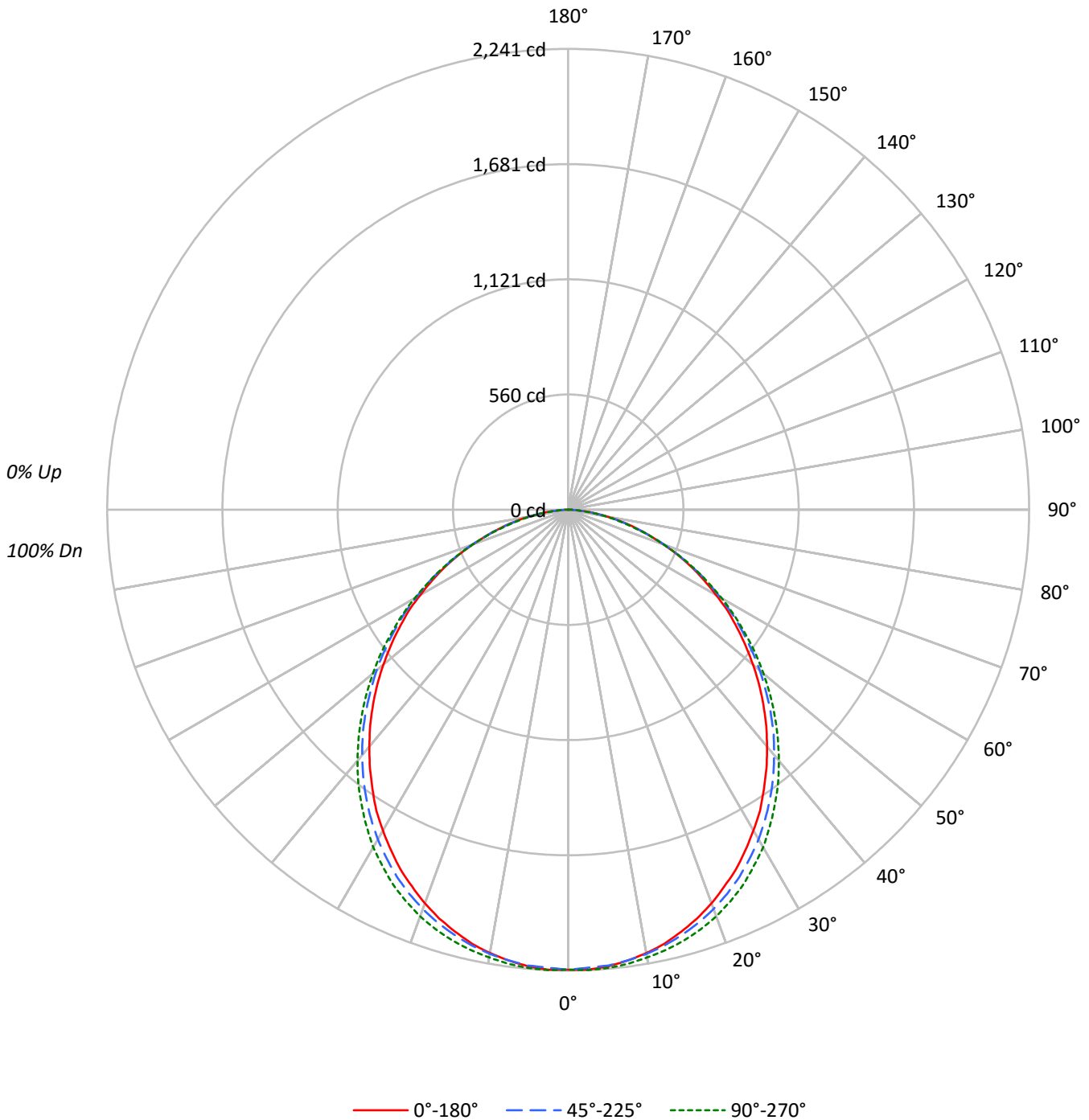
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P297297

CATALOG NUMBER: D3X-WO-55L83050-LD5-UNV-24-T1-W2A-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P297297

CATALOG NUMBER: D3X-WO-55L83050-LD5-UNV-24-T1-W2A-4500K

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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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°	3010	3010	3010
5°	3011	3005	3021
10°	2991	2997	3021
15°	2959	2981	3022
20°	2917	2959	3013
25°	2865	2924	2989
30°	2798	2875	2946
35°	2724	2812	2877
40°	2641	2735	2798
45°	2552	2647	2703
50°	2455	2547	2592
55°	2352	2426	2464
60°	2234	2293	2319
65°	2107	2138	2151
70°	1933	1956	1933
75°	1741	1731	1679
80°	1474	1458	1413
85°	1101	1071	948



TEST NUMBER: P297297

CATALOG NUMBER: D3X-WO-55L83050-LD5-UNV-24-T1-W2A-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.8	3.6
10°-20°	605.0	10.3
20°-30°	907.2	15.4
30°-40°	1068.3	18.2
40°-50°	1068.5	18.2
50°-60°	921.9	15.7
60°-70°	663.4	11.3
70°-80°	351.9	6.0
80°-90°	83.9	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°	1724.0	29.3
0°-40°	2792.4	47.5
0°-60°	4782.8	81.3
0°-90°	5882.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5882.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2237	2237	2237	2237	2237	
5°	2229	2227	2225	2233	2237	211
15°	2124	2130	2140	2162	2170	599
25°	1930	1942	1970	2003	2013	888
35°	1658	1678	1712	1742	1752	1038
45°	1341	1359	1391	1415	1421	1035
55°	1003	1012	1034	1052	1050	897
65°	662	664	672	676	676	655
75°	335	331	333	325	323	356
85°	71	71	69	63	61	86
90°	0	0	0	0	0	



TEST NUMBER: P297297

CATALOG NUMBER: D3X-WO-55L83050-LD5-UNV-24-T1-W2A-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2237.0	2237.0	2237.0	2237.0	2237.0
2.5°	2239.0	2235.1	2229.1	2237.0	2241.0
5°	2229.1	2227.1	2225.1	2233.1	2237.0
7.5°	2211.3	2213.3	2211.3	2223.2	2227.1
10°	2189.5	2191.5	2193.4	2207.3	2211.3
12.5°	2161.7	2163.7	2169.7	2187.5	2193.4
15°	2124.1	2130.0	2139.9	2161.7	2169.7
17.5°	2084.5	2092.4	2106.3	2132.0	2139.9
20°	2036.9	2046.8	2066.6	2094.4	2104.3
22.5°	1983.4	1993.3	2021.1	2050.8	2060.7
25°	1929.9	1941.8	1969.5	2003.2	2013.1
27.5°	1866.5	1882.4	1912.1	1945.8	1953.7
30°	1801.1	1815.0	1850.7	1882.4	1896.2
32.5°	1735.7	1749.6	1783.3	1815.0	1824.9
35°	1658.5	1678.3	1712.0	1741.7	1751.6
37.5°	1583.2	1601.0	1636.7	1666.4	1676.3
40°	1503.9	1519.8	1557.4	1585.1	1593.1
42.5°	1424.6	1440.5	1478.1	1499.9	1507.9
45°	1341.4	1359.3	1391.0	1414.7	1420.7
47.5°	1258.2	1272.1	1301.8	1323.6	1331.5
50°	1173.0	1186.9	1216.6	1234.4	1238.4
52.5°	1087.8	1097.7	1125.5	1141.3	1147.2
55°	1002.6	1012.5	1034.3	1052.1	1050.2
57.5°	921.4	925.3	947.1	959.0	959.0
60°	830.2	834.2	852.0	859.9	861.9
62.5°	745.0	751.0	764.8	766.8	766.8
65°	661.8	663.8	671.7	675.7	675.7
67.5°	578.6	576.6	584.5	584.5	582.5
70°	491.4	495.4	497.3	493.4	491.4
72.5°	412.1	410.2	410.2	408.2	408.2
75°	334.9	330.9	332.9	325.0	323.0
77.5°	263.5	257.6	255.6	251.6	247.7
80°	190.2	190.2	188.2	184.3	182.3
82.5°	126.8	126.8	124.8	120.9	116.9
85°	71.3	71.3	69.4	63.4	61.4
87.5°	23.8	23.8	23.8	23.8	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)