

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: P297294

Luminaire Tested: **D3X-WO-55L83050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297294
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-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5244.0 lumens
Efficiency: N/A
Efficacy: 137.3 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

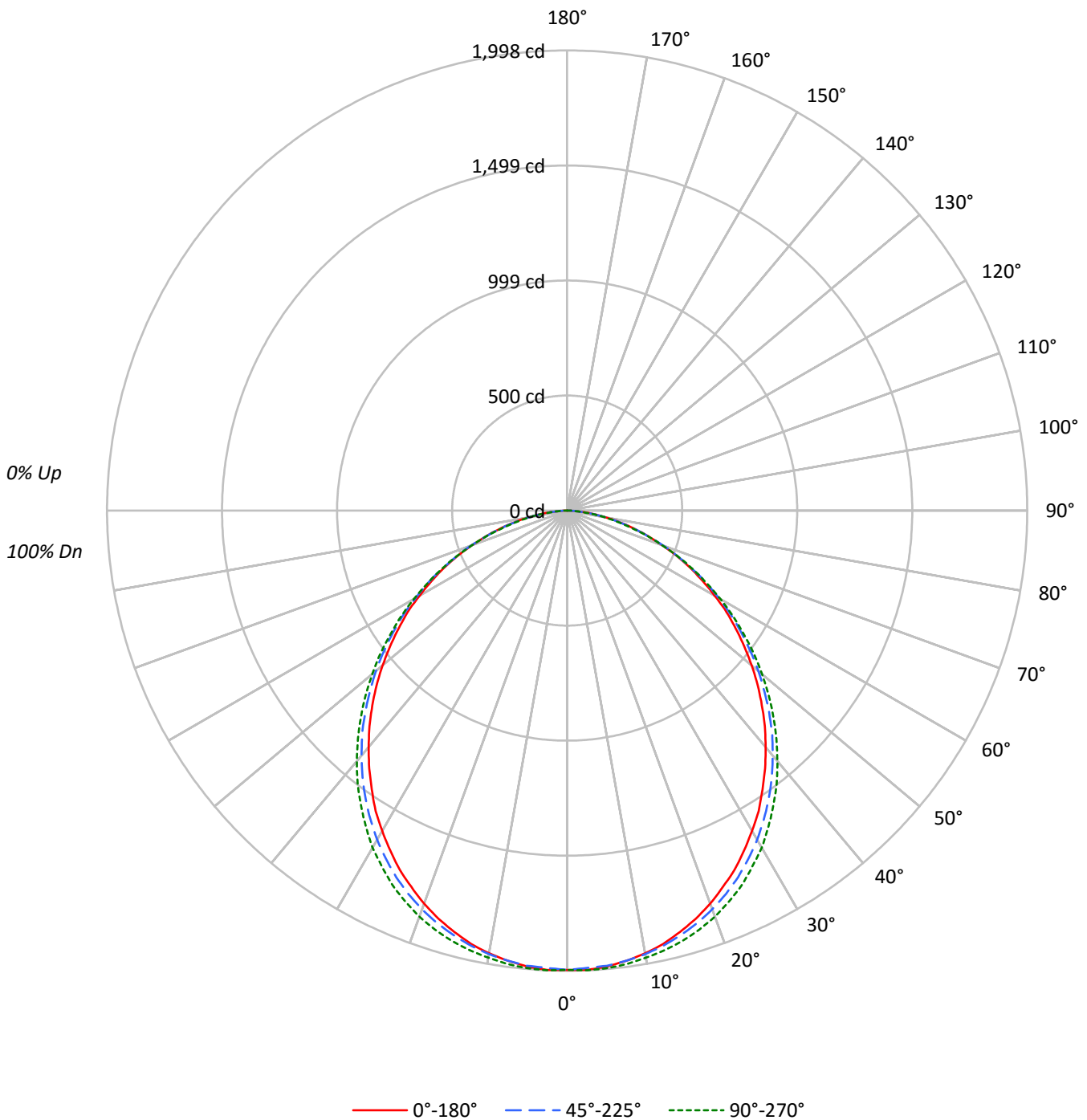
Input Watts (W): 38.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2683	2683	2683
5°	2684	2679	2694
10°	2667	2672	2693
15°	2638	2657	2694
20°	2600	2638	2686
25°	2554	2607	2665
30°	2495	2563	2627
35°	2429	2507	2565
40°	2355	2439	2495
45°	2276	2360	2410
50°	2189	2270	2311
55°	2097	2163	2196
60°	1992	2044	2068
65°	1878	1906	1918
70°	1723	1744	1723
75°	1552	1543	1497
80°	1314	1300	1259
85°	982	954	846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.8	3.6
10°-20°	539.4	10.3
20°-30°	808.8	15.4
30°-40°	952.5	18.2
40°-50°	952.6	18.2
50°-60°	821.9	15.7
60°-70°	591.4	11.3
70°-80°	313.7	6.0
80°-90°	74.8	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°	1537.0	29.3
0°-40°	2489.5	47.5
0°-60°	4264.0	81.3
0°-90°	5244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5244.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1994	1994	1994	1994	1994	
5°	1987	1986	1984	1991	1994	189
15°	1894	1899	1908	1927	1934	534
25°	1721	1731	1756	1786	1795	791
35°	1479	1496	1526	1553	1562	925
45°	1196	1212	1240	1261	1267	923
55°	894	903	922	938	936	800
65°	590	592	599	602	602	584
75°	298	295	297	290	288	318
85°	64	64	62	56	55	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1994.4	1994.4	1994.4	1994.4	1994.4
2.5°	1996.2	1992.6	1987.3	1994.4	1997.9
5°	1987.3	1985.6	1983.8	1990.9	1994.4
7.5°	1971.4	1973.2	1971.4	1982.0	1985.6
10°	1952.0	1953.8	1955.5	1967.9	1971.4
12.5°	1927.3	1929.0	1934.3	1950.2	1955.5
15°	1893.7	1899.0	1907.8	1927.3	1934.3
17.5°	1858.4	1865.4	1877.8	1900.8	1907.8
20°	1816.0	1824.8	1842.5	1867.2	1876.0
22.5°	1768.3	1777.1	1801.8	1828.3	1837.2
25°	1720.6	1731.2	1755.9	1785.9	1794.8
27.5°	1664.1	1678.2	1704.7	1734.7	1741.8
30°	1605.8	1618.1	1649.9	1678.2	1690.6
32.5°	1547.5	1559.8	1589.9	1618.1	1627.0
35°	1478.6	1496.2	1526.3	1552.8	1561.6
37.5°	1411.4	1427.3	1459.1	1485.6	1494.5
40°	1340.8	1354.9	1388.5	1413.2	1420.3
42.5°	1270.1	1284.3	1317.8	1337.2	1344.3
45°	1195.9	1211.8	1240.1	1261.3	1266.6
47.5°	1121.7	1134.1	1160.6	1180.0	1187.1
50°	1045.8	1058.1	1084.6	1100.5	1104.1
52.5°	969.8	978.6	1003.4	1017.5	1022.8
55°	893.9	902.7	922.1	938.0	936.3
57.5°	821.4	825.0	844.4	855.0	855.0
60°	740.2	743.7	759.6	766.7	768.4
62.5°	664.2	669.5	681.9	683.6	683.6
65°	590.0	591.8	598.8	602.4	602.4
67.5°	515.8	514.1	521.1	521.1	519.4
70°	438.1	441.6	443.4	439.9	438.1
72.5°	367.4	365.7	365.7	363.9	363.9
75°	298.5	295.0	296.8	289.7	287.9
77.5°	234.9	229.6	227.9	224.3	220.8
80°	169.6	169.6	167.8	164.3	162.5
82.5°	113.1	113.1	111.3	107.8	104.2
85°	63.6	63.6	61.8	56.5	54.8
87.5°	21.2	21.2	21.2	21.2	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)