

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: P297295

Luminaire Tested: **D3X-WO-55L83050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297295
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-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: 5549.0 lumens
Efficiency: N/A
Efficacy: 144.9 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

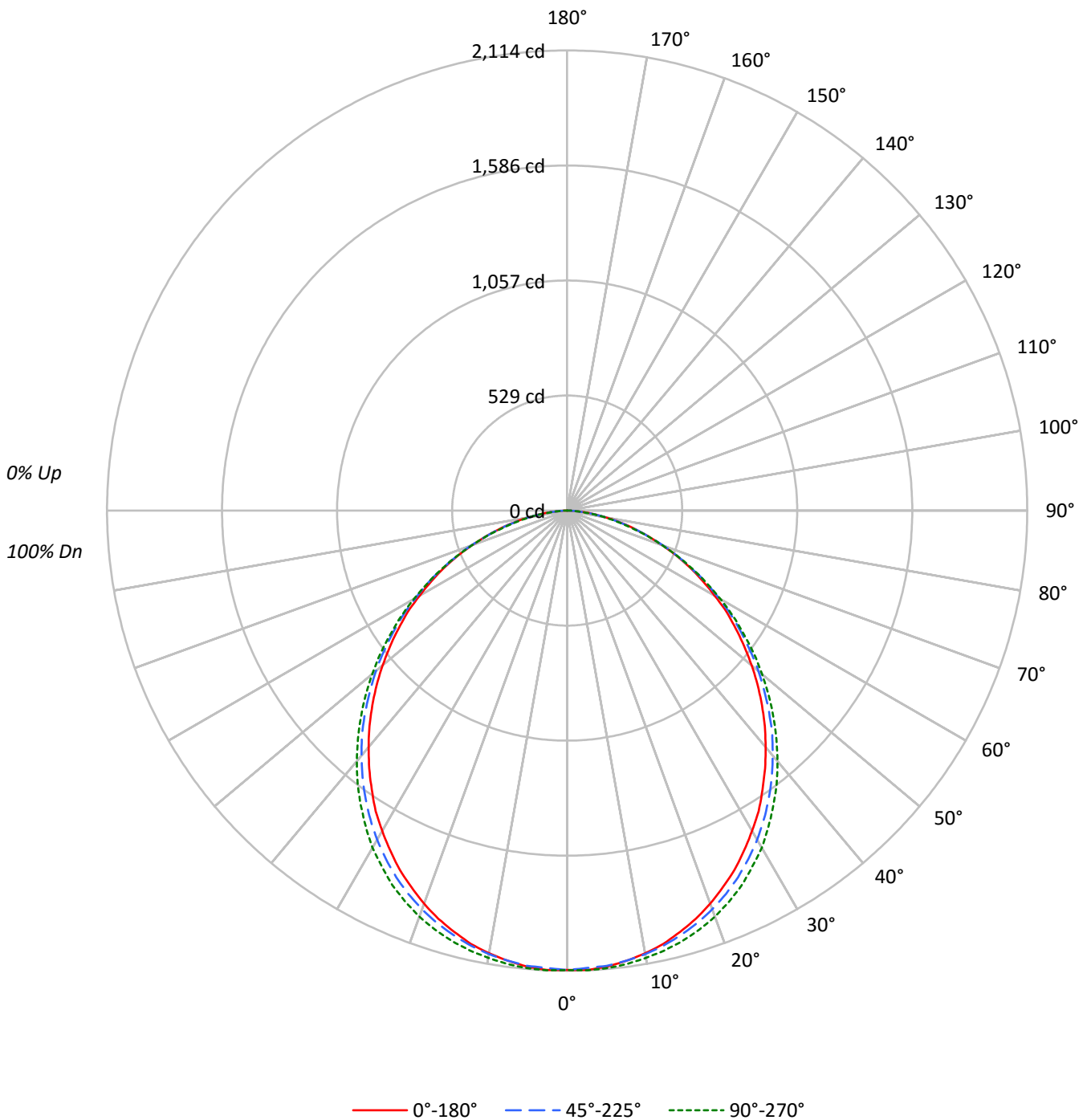
Input Watts (W): 38.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2840	2840	2840
5°	2840	2835	2850
10°	2822	2827	2850
15°	2791	2812	2851
20°	2751	2792	2842
25°	2703	2758	2820
30°	2640	2712	2779
35°	2570	2653	2714
40°	2492	2581	2640
45°	2408	2497	2550
50°	2316	2402	2445
55°	2219	2289	2324
60°	2108	2163	2188
65°	1988	2018	2029
70°	1824	1846	1824
75°	1642	1632	1584
80°	1390	1376	1333
85°	1039	1010	894



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.8	3.6
10°-20°	570.8	10.3
20°-30°	855.8	15.4
30°-40°	1007.9	18.2
40°-50°	1008.0	18.2
50°-60°	869.7	15.7
60°-70°	625.8	11.3
70°-80°	332.0	6.0
80°-90°	79.2	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°	1626.4	29.3
0°-40°	2634.3	47.5
0°-60°	4512.0	81.3
0°-90°	5549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5549.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2110	2110	2110	2110	2110	
5°	2103	2101	2099	2107	2110	199
15°	2004	2009	2019	2039	2047	565
25°	1821	1832	1858	1890	1899	837
35°	1565	1583	1615	1643	1652	979
45°	1266	1282	1312	1335	1340	976
55°	946	955	976	993	991	846
65°	624	626	634	637	637	617
75°	316	312	314	307	305	336
85°	67	67	65	60	58	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2110.4	2110.4	2110.4	2110.4	2110.4
2.5°	2112.3	2108.5	2102.9	2110.4	2114.1
5°	2102.9	2101.0	2099.2	2106.6	2110.4
7.5°	2086.1	2088.0	2086.1	2097.3	2101.0
10°	2065.5	2067.4	2069.3	2082.3	2086.1
12.5°	2039.4	2041.2	2046.8	2063.7	2069.3
15°	2003.8	2009.4	2018.8	2039.4	2046.8
17.5°	1966.5	1973.9	1987.0	2011.3	2018.8
20°	1921.6	1930.9	1949.6	1975.8	1985.1
22.5°	1871.1	1880.5	1906.6	1934.7	1944.0
25°	1820.7	1831.9	1858.0	1889.8	1899.2
27.5°	1760.8	1775.8	1803.8	1835.6	1843.1
30°	1699.2	1712.2	1745.9	1775.8	1788.9
32.5°	1637.5	1650.6	1682.3	1712.2	1721.6
35°	1564.6	1583.3	1615.0	1643.1	1652.4
37.5°	1493.5	1510.4	1544.0	1572.0	1581.4
40°	1418.8	1433.7	1469.2	1495.4	1502.9
42.5°	1344.0	1358.9	1394.5	1415.0	1422.5
45°	1265.5	1282.3	1312.2	1334.6	1340.3
47.5°	1187.0	1200.1	1228.1	1248.7	1256.1
50°	1106.6	1119.7	1147.7	1164.5	1168.3
52.5°	1026.2	1035.6	1061.7	1076.7	1082.3
55°	945.8	955.2	975.8	992.6	990.7
57.5°	869.2	872.9	893.5	904.7	904.7
60°	783.2	787.0	803.8	811.3	813.1
62.5°	702.8	708.4	721.5	723.4	723.4
65°	624.3	626.2	633.7	637.4	637.4
67.5°	545.8	544.0	551.4	551.4	549.6
70°	463.6	467.3	469.2	465.4	463.6
72.5°	388.8	386.9	386.9	385.1	385.1
75°	315.9	312.2	314.0	306.6	304.7
77.5°	248.6	243.0	241.1	237.4	233.7
80°	179.4	179.4	177.6	173.8	172.0
82.5°	119.6	119.6	117.8	114.0	110.3
85°	67.3	67.3	65.4	59.8	57.9
87.5°	22.4	22.4	22.4	22.4	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)