

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: P297292

Luminaire Tested: **D3X-WO-50L83050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297292
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-50L83050-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: 5290.0 lumens
Efficiency: N/A
Efficacy: 144.5 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

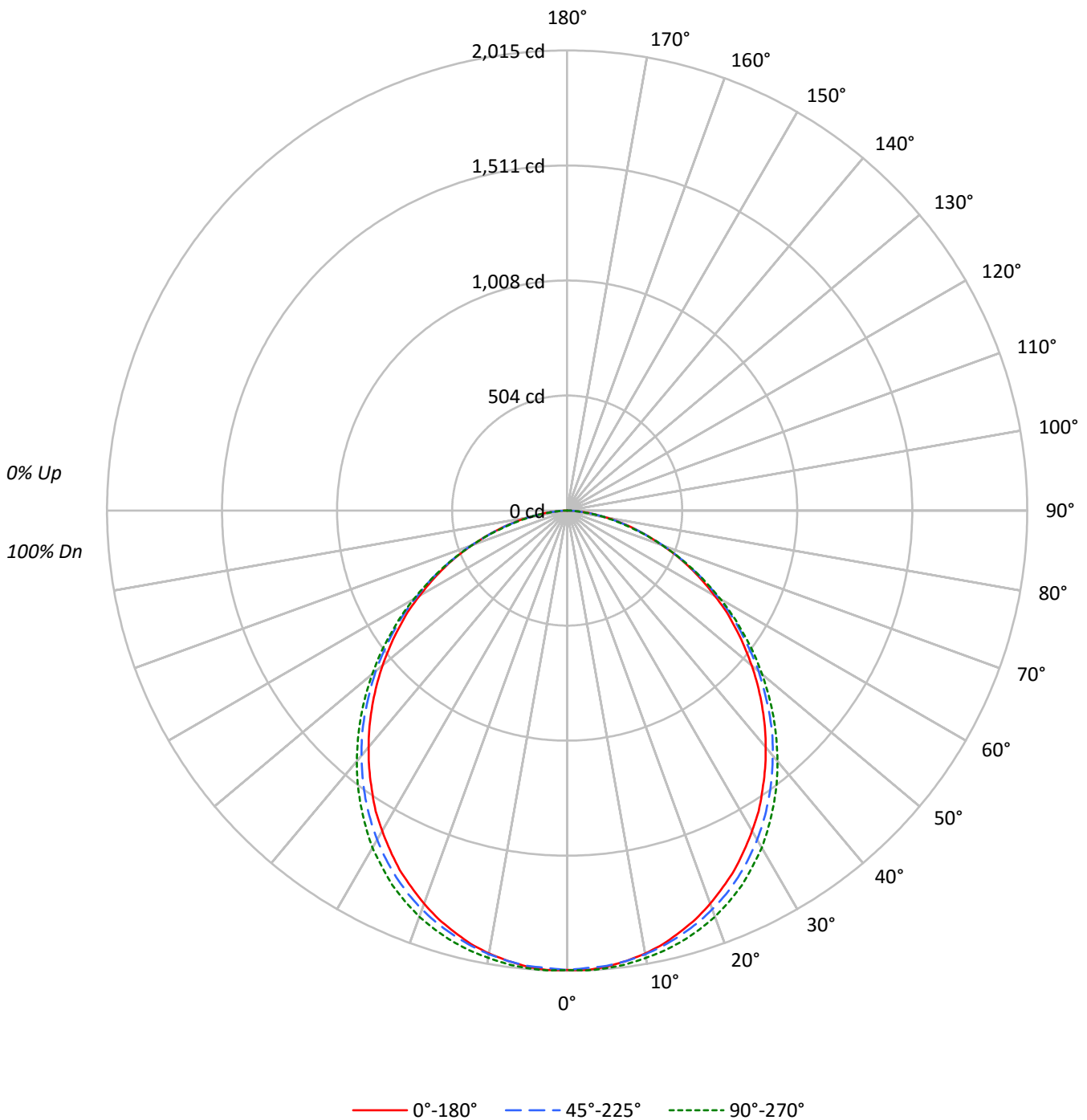
Input Watts (W): 36.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2707	2707	2707
5°	2708	2703	2717
10°	2690	2695	2717
15°	2661	2681	2718
20°	2623	2661	2710
25°	2577	2630	2688
30°	2517	2586	2650
35°	2450	2529	2587
40°	2376	2460	2516
45°	2296	2380	2431
50°	2208	2290	2331
55°	2115	2182	2216
60°	2009	2062	2086
65°	1895	1923	1935
70°	1738	1760	1738
75°	1566	1556	1510
80°	1326	1312	1270
85°	991	963	852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.5	3.6
10°-20°	544.2	10.3
20°-30°	815.9	15.4
30°-40°	960.8	18.2
40°-50°	961.0	18.2
50°-60°	829.1	15.7
60°-70°	596.6	11.3
70°-80°	316.5	6.0
80°-90°	75.5	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°	1550.5	29.3
0°-40°	2511.3	47.5
0°-60°	4301.4	81.3
0°-90°	5290.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5290.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2012	2012	2012	2012	2012	
5°	2005	2003	2001	2008	2012	190
15°	1910	1916	1925	1944	1951	539
25°	1736	1746	1771	1802	1810	798
35°	1492	1509	1540	1566	1575	933
45°	1206	1222	1251	1272	1278	931
55°	902	911	930	946	944	807
65°	595	597	604	608	608	589
75°	301	298	299	292	290	320
85°	64	64	62	57	55	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2011.9	2011.9	2011.9	2011.9	2011.9
2.5°	2013.7	2010.1	2004.8	2011.9	2015.4
5°	2004.8	2003.0	2001.2	2008.3	2011.9
7.5°	1988.7	1990.5	1988.7	1999.4	2003.0
10°	1969.1	1970.9	1972.7	1985.2	1988.7
12.5°	1944.2	1946.0	1951.3	1967.3	1972.7
15°	1910.3	1915.7	1924.6	1944.2	1951.3
17.5°	1874.7	1881.8	1894.3	1917.4	1924.6
20°	1831.9	1840.8	1858.6	1883.6	1892.5
22.5°	1783.8	1792.7	1817.6	1844.4	1853.3
25°	1735.7	1746.4	1771.3	1801.6	1810.5
27.5°	1678.6	1692.9	1719.6	1749.9	1757.1
30°	1619.8	1632.3	1664.4	1692.9	1705.4
32.5°	1561.0	1573.5	1603.8	1632.3	1641.2
35°	1491.5	1509.4	1539.7	1566.4	1575.3
37.5°	1423.8	1439.9	1471.9	1498.7	1507.6
40°	1352.5	1366.8	1400.7	1425.6	1432.7
42.5°	1281.3	1295.5	1329.4	1349.0	1356.1
45°	1206.4	1222.5	1251.0	1272.4	1277.7
47.5°	1131.6	1144.0	1170.8	1190.4	1197.5
50°	1054.9	1067.4	1094.2	1110.2	1113.8
52.5°	978.3	987.2	1012.2	1026.4	1031.8
55°	901.7	910.6	930.2	946.2	944.5
57.5°	828.6	832.2	851.8	862.5	862.5
60°	746.7	750.2	766.3	773.4	775.2
62.5°	670.0	675.4	687.9	689.6	689.6
65°	595.2	597.0	604.1	607.7	607.7
67.5°	520.3	518.6	525.7	525.7	523.9
70°	441.9	445.5	447.3	443.7	441.9
72.5°	370.7	368.9	368.9	367.1	367.1
75°	301.2	297.6	299.4	292.2	290.5
77.5°	237.0	231.7	229.9	226.3	222.8
80°	171.1	171.1	169.3	165.7	163.9
82.5°	114.0	114.0	112.3	108.7	105.1
85°	64.2	64.2	62.4	57.0	55.2
87.5°	21.4	21.4	21.4	21.4	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)