

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: P296731

Luminaire Tested: **D3X-WD-50L83050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-50L83050-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4919.0 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

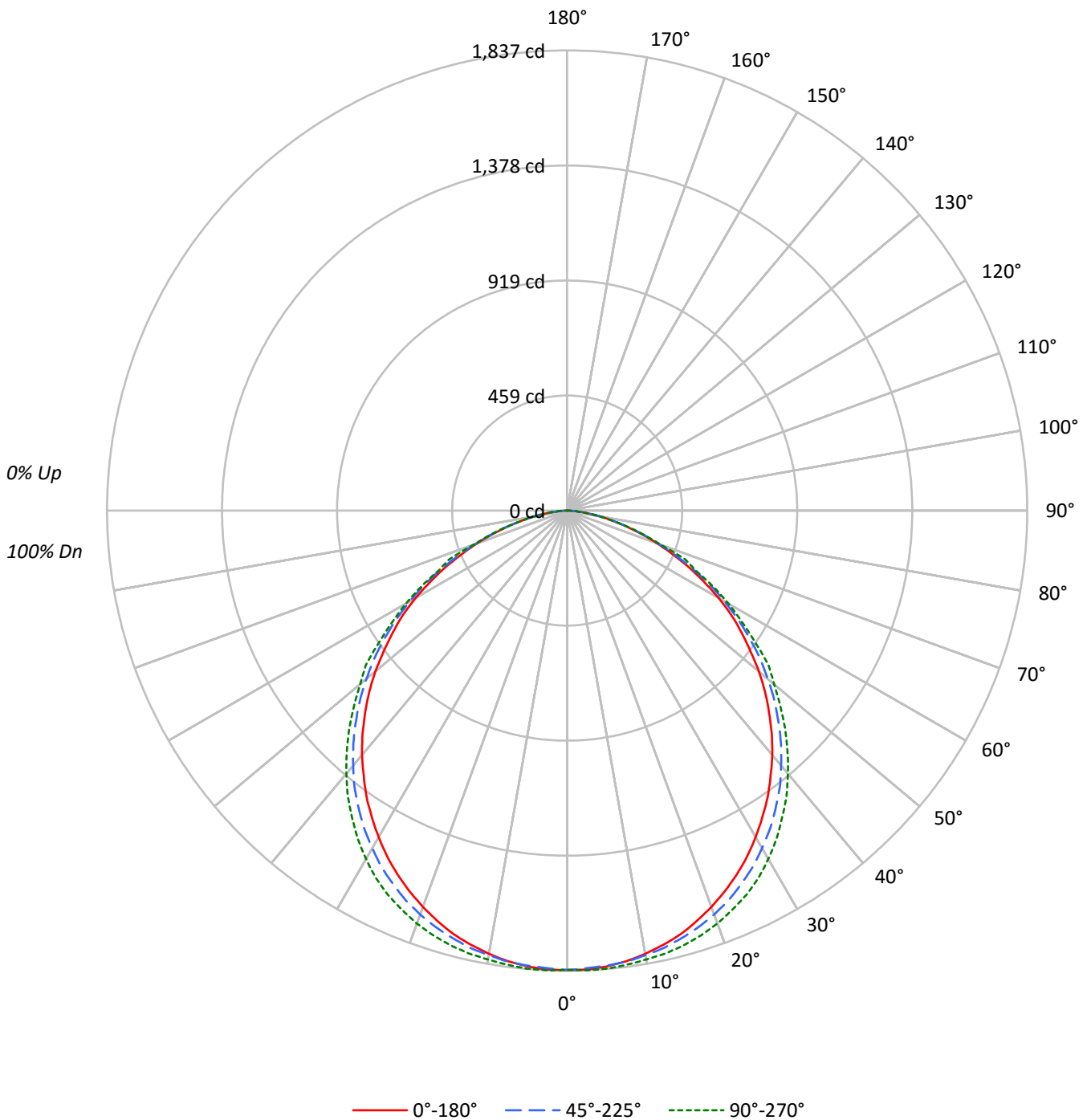
Input Watts (W): 35.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	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	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	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°	2467	2467	2467
5°	2467	2462	2479
10°	2455	2462	2486
15°	2439	2461	2503
20°	2411	2456	2512
25°	2379	2442	2513
30°	2339	2419	2495
35°	2293	2383	2458
40°	2238	2334	2409
45°	2169	2270	2341
50°	2091	2191	2257
55°	1996	2087	2149
60°	1881	1952	1999
65°	1708	1764	1798
70°	1500	1535	1555
75°	1266	1285	1294
80°	1012	1026	998
85°	681	709	681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.8	3.5
10°-20°	499.8	10.2
20°-30°	758.3	15.4
30°-40°	905.3	18.4
40°-50°	916.5	18.6
50°-60°	792.2	16.1
60°-70°	549.1	11.2
70°-80°	265.7	5.4
80°-90°	58.4	1.2
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°	1431.8	29.1
0°-40°	2337.1	47.5
0°-60°	4045.9	82.2
0°-90°	4919.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4919.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1834	1834	1834	1834	1834	
5°	1827	1825	1823	1832	1836	173
15°	1751	1754	1767	1788	1797	493
25°	1603	1613	1645	1678	1693	738
35°	1396	1408	1451	1488	1497	872
45°	1140	1156	1193	1223	1230	879
55°	851	860	890	927	916	760
65°	536	542	554	563	565	531
75°	244	245	247	245	249	261
85°	44	48	46	44	44	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1833.8	1833.8	1833.8	1833.8	1833.8
2.5°	1833.8	1832.0	1828.5	1833.8	1837.3
5°	1826.7	1824.9	1823.2	1832.0	1835.5
7.5°	1814.4	1814.4	1816.1	1824.9	1828.5
10°	1796.7	1798.5	1802.0	1816.1	1819.6
12.5°	1775.5	1779.1	1787.9	1803.8	1810.8
15°	1750.8	1754.3	1766.7	1787.9	1796.7
17.5°	1719.0	1726.1	1743.8	1768.5	1777.3
20°	1683.7	1692.6	1715.5	1743.8	1754.3
22.5°	1644.9	1653.7	1683.7	1713.8	1724.3
25°	1602.6	1613.2	1644.9	1678.5	1692.6
27.5°	1556.7	1569.0	1604.3	1639.6	1653.7
30°	1505.5	1519.6	1556.7	1593.7	1606.1
32.5°	1450.8	1464.9	1507.3	1542.6	1554.9
35°	1396.1	1408.4	1450.8	1487.8	1496.7
37.5°	1334.3	1348.4	1394.3	1426.1	1438.4
40°	1274.3	1288.4	1329.0	1360.8	1371.4
42.5°	1209.0	1223.1	1263.7	1293.7	1302.5
45°	1140.1	1156.0	1193.1	1223.1	1230.2
47.5°	1071.3	1083.7	1122.5	1149.0	1154.3
50°	999.0	1011.3	1046.6	1073.1	1078.4
52.5°	923.1	942.5	970.7	990.1	1013.1
55°	850.7	859.5	889.5	926.6	916.0
57.5°	778.3	783.6	808.3	824.2	827.8
60°	698.9	706.0	725.4	734.2	743.0
62.5°	616.0	621.3	644.2	653.0	656.6
65°	536.5	541.8	554.2	563.0	564.8
67.5°	455.4	460.6	471.2	478.3	510.1
70°	381.2	384.8	390.1	404.2	395.3
72.5°	310.6	312.4	317.7	317.7	319.5
75°	243.6	245.3	247.1	245.3	248.9
77.5°	181.8	185.3	187.1	185.3	183.6
80°	130.6	134.1	132.4	128.8	128.8
82.5°	84.7	86.5	84.7	83.0	83.0
85°	44.1	47.7	45.9	44.1	44.1
87.5°	15.9	17.6	19.4	21.2	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)