

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: P296806

Luminaire Tested: **D3X-WD-55L82765-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296806
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-55L82765-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5087.0 lumens
Efficiency: N/A
Efficacy: 132.1 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

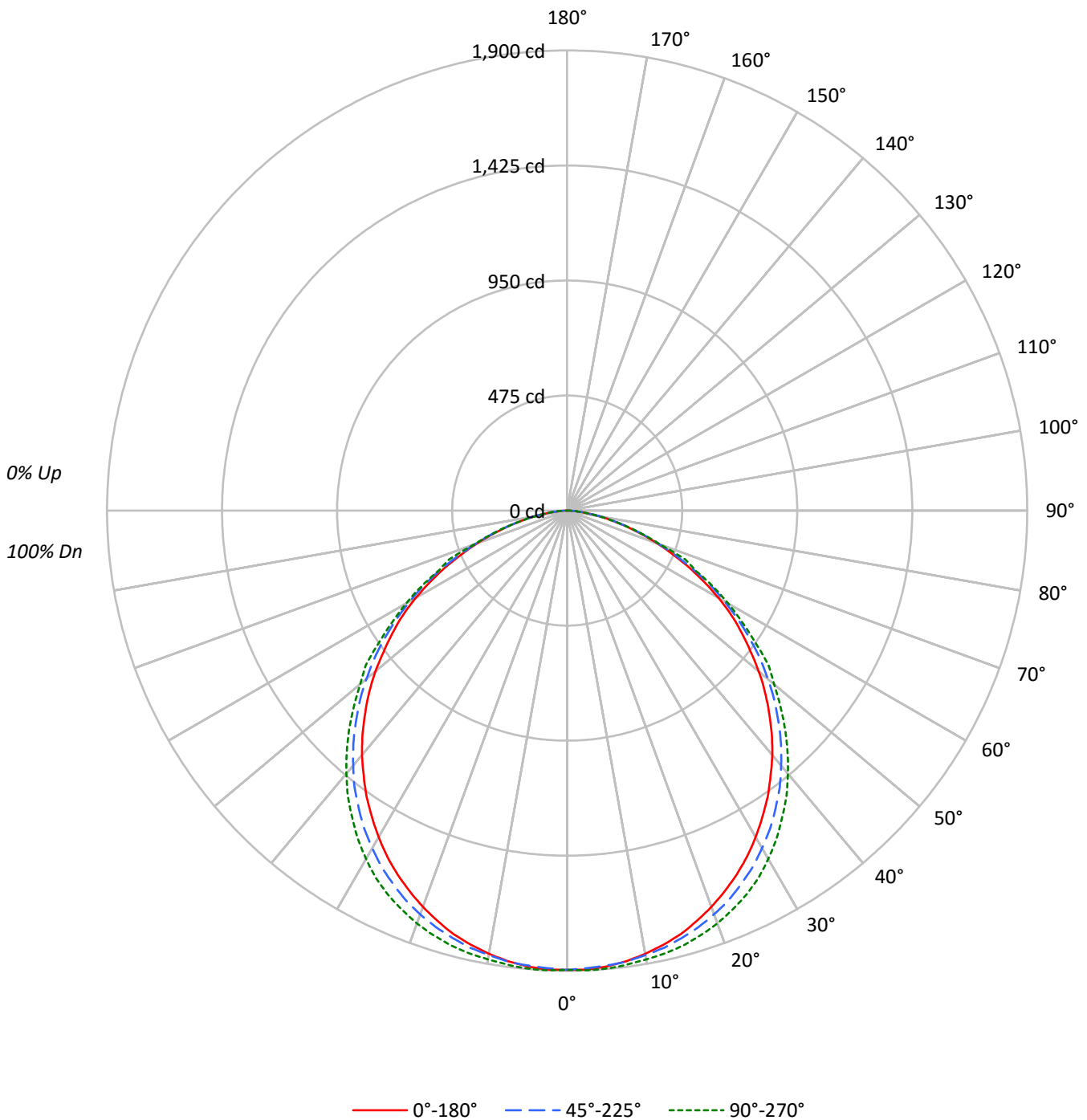
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2552	2552	2552
5°	2551	2546	2564
10°	2539	2546	2571
15°	2522	2545	2588
20°	2493	2540	2598
25°	2460	2525	2599
30°	2419	2501	2580
35°	2371	2464	2542
40°	2315	2414	2491
45°	2244	2348	2421
50°	2162	2266	2334
55°	2064	2158	2222
60°	1945	2019	2068
65°	1767	1825	1860
70°	1551	1587	1608
75°	1310	1328	1338
80°	1047	1061	1032
85°	704	733	704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.7	3.5
10°-20°	516.8	10.2
20°-30°	784.2	15.4
30°-40°	936.2	18.4
40°-50°	947.8	18.6
50°-60°	819.3	16.1
60°-70°	567.8	11.2
70°-80°	274.7	5.4
80°-90°	60.4	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°	1480.7	29.1
0°-40°	2416.9	47.5
0°-60°	4184.0	82.2
0°-90°	5087.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5087.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1896	1896	1896	1896	1896	
5°	1889	1887	1885	1895	1898	179
15°	1811	1814	1827	1849	1858	510
25°	1657	1668	1701	1736	1750	763
35°	1444	1456	1500	1539	1548	902
45°	1179	1196	1234	1265	1272	909
55°	880	889	920	958	947	786
65°	555	560	573	582	584	549
75°	252	254	256	254	257	270
85°	46	49	48	46	46	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1896.4	1896.4	1896.4	1896.4	1896.4
2.5°	1896.4	1894.6	1890.9	1896.4	1900.0
5°	1889.1	1887.3	1885.4	1894.6	1898.2
7.5°	1876.3	1876.3	1878.1	1887.3	1890.9
10°	1858.1	1859.9	1863.5	1878.1	1881.8
12.5°	1836.2	1839.8	1848.9	1865.4	1872.7
15°	1810.6	1814.3	1827.0	1848.9	1858.1
17.5°	1777.8	1785.1	1803.3	1828.9	1838.0
20°	1741.3	1750.4	1774.1	1803.3	1814.3
22.5°	1701.1	1710.2	1741.3	1772.3	1783.2
25°	1657.3	1668.2	1701.1	1735.8	1750.4
27.5°	1609.8	1622.6	1659.1	1695.6	1710.2
30°	1556.9	1571.5	1609.8	1648.2	1660.9
32.5°	1500.3	1514.9	1558.7	1595.2	1608.0
35°	1443.7	1456.5	1500.3	1538.7	1547.8
37.5°	1379.9	1394.5	1441.9	1474.8	1487.5
40°	1317.8	1332.4	1374.4	1407.2	1418.2
42.5°	1250.3	1264.9	1306.9	1337.9	1347.0
45°	1179.1	1195.5	1233.8	1264.9	1272.2
47.5°	1107.9	1120.7	1160.8	1188.2	1193.7
50°	1033.1	1045.8	1082.4	1109.7	1115.2
52.5°	954.6	974.7	1003.9	1023.9	1047.7
55°	879.8	888.9	919.9	958.2	947.3
57.5°	804.9	810.4	835.9	852.4	856.0
60°	722.8	730.1	750.2	759.3	768.4
62.5°	637.0	642.5	666.2	675.3	679.0
65°	554.9	560.3	573.1	582.2	584.1
67.5°	470.9	476.4	487.3	494.6	527.5
70°	394.2	397.9	403.4	418.0	408.8
72.5°	321.2	323.1	328.5	328.5	330.4
75°	251.9	253.7	255.5	253.7	257.4
77.5°	188.0	191.6	193.5	191.6	189.8
80°	135.1	138.7	136.9	133.2	133.2
82.5°	87.6	89.4	87.6	85.8	85.8
85°	45.6	49.3	47.5	45.6	45.6
87.5°	16.4	18.3	20.1	21.9	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)