

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: P296810

Luminaire Tested: **D3X-WD-55L82765-LD5-UNV-24-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296810
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-5500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5416.0 lumens
Efficiency: N/A
Efficacy: 137.5 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

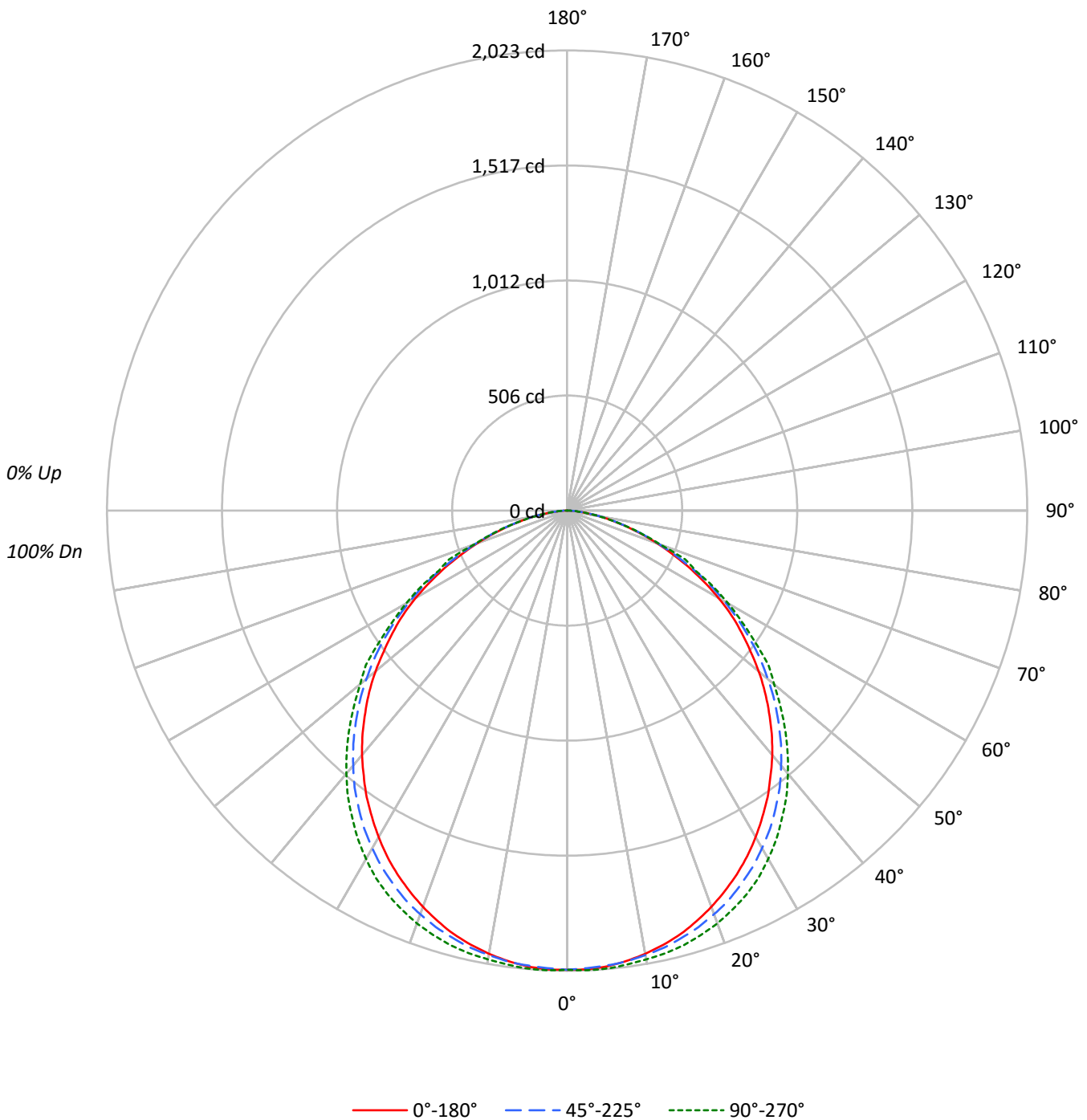
Input Watts (W): 39.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2717	2717	2717
5°	2717	2711	2730
10°	2703	2711	2737
15°	2685	2710	2756
20°	2654	2704	2766
25°	2620	2689	2767
30°	2575	2663	2747
35°	2525	2624	2707
40°	2464	2570	2652
45°	2389	2500	2577
50°	2302	2412	2485
55°	2197	2297	2366
60°	2071	2149	2201
65°	1881	1943	1980
70°	1651	1690	1712
75°	1394	1415	1424
80°	1114	1129	1099
85°	750	780	750



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.3	3.5
10°-20°	550.3	10.2
20°-30°	834.9	15.4
30°-40°	996.8	18.4
40°-50°	1009.1	18.6
50°-60°	872.3	16.1
60°-70°	604.6	11.2
70°-80°	292.5	5.4
80°-90°	64.3	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°	1576.5	29.1
0°-40°	2573.3	47.5
0°-60°	4454.6	82.2
0°-90°	5416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5416.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2019	2019	2019	2019	2019	
5°	2011	2009	2007	2017	2021	191
15°	1928	1932	1945	1968	1978	543
25°	1764	1776	1811	1848	1864	813
35°	1537	1551	1597	1638	1648	960
45°	1255	1273	1314	1347	1354	968
55°	937	946	979	1020	1009	837
65°	591	597	610	620	622	585
75°	268	270	272	270	274	288
85°	49	52	50	49	49	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2019.0	2019.0	2019.0	2019.0	2019.0
2.5°	2019.0	2017.1	2013.2	2019.0	2022.9
5°	2011.3	2009.3	2007.4	2017.1	2021.0
7.5°	1997.7	1997.7	1999.6	2009.3	2013.2
10°	1978.2	1980.2	1984.1	1999.6	2003.5
12.5°	1954.9	1958.8	1968.5	1986.0	1993.8
15°	1927.7	1931.6	1945.2	1968.5	1978.2
17.5°	1892.7	1900.5	1919.9	1947.1	1956.9
20°	1853.9	1863.6	1888.8	1919.9	1931.6
22.5°	1811.1	1820.8	1853.9	1886.9	1898.6
25°	1764.5	1776.1	1811.1	1848.0	1863.6
27.5°	1714.0	1727.6	1766.4	1805.3	1820.8
30°	1657.6	1673.1	1714.0	1754.8	1768.4
32.5°	1597.4	1612.9	1659.5	1698.4	1712.0
35°	1537.1	1550.7	1597.4	1638.2	1647.9
37.5°	1469.1	1484.6	1535.2	1570.2	1583.8
40°	1403.0	1418.6	1463.3	1498.3	1509.9
42.5°	1331.1	1346.7	1391.4	1424.4	1434.1
45°	1255.3	1272.8	1313.6	1346.7	1354.5
47.5°	1179.6	1193.2	1235.9	1265.1	1270.9
50°	1099.9	1113.5	1152.4	1181.5	1187.3
52.5°	1016.3	1037.7	1068.8	1090.2	1115.4
55°	936.7	946.4	979.4	1020.2	1008.6
57.5°	857.0	862.8	890.0	907.5	911.4
60°	769.5	777.3	798.7	808.4	818.1
62.5°	678.2	684.0	709.3	719.0	722.9
65°	590.8	596.6	610.2	619.9	621.8
67.5°	501.4	507.2	518.9	526.6	561.6
70°	419.7	423.6	429.5	445.0	435.3
72.5°	342.0	344.0	349.8	349.8	351.7
75°	268.2	270.1	272.1	270.1	274.0
77.5°	200.2	204.0	206.0	204.0	202.1
80°	143.8	147.7	145.7	141.9	141.9
82.5°	93.3	95.2	93.3	91.3	91.3
85°	48.6	52.5	50.5	48.6	48.6
87.5°	17.5	19.4	21.4	23.3	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)