

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: P296804

Luminaire Tested: **D3X-WD-55L82765-LD5-UNV-24-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296804
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-2700K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4780.0 lumens
Efficiency: N/A
Efficacy: 124.8 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

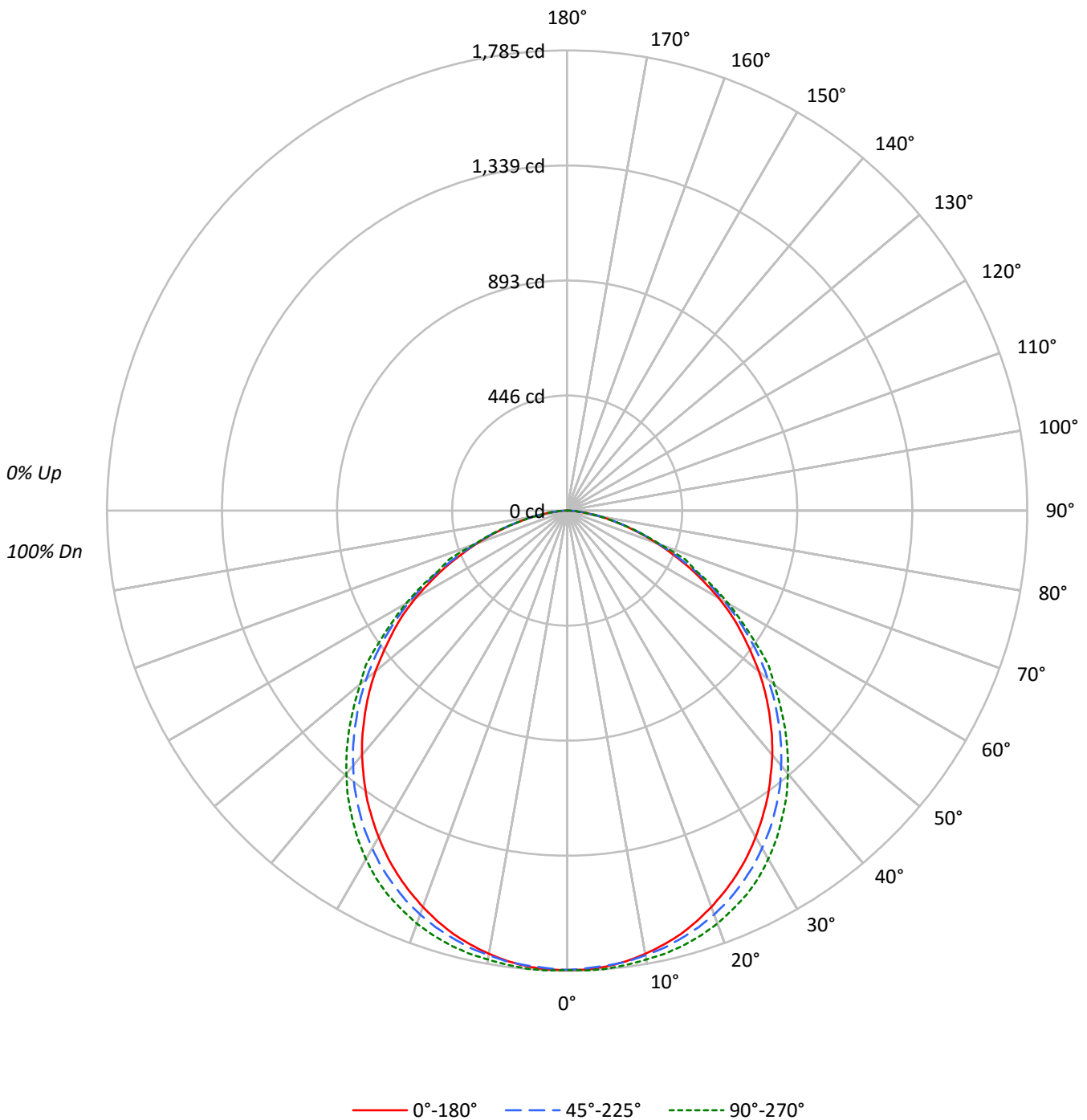
Input Watts (W): 38.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2398	2398	2398
5°	2398	2393	2409
10°	2385	2392	2416
15°	2370	2391	2432
20°	2343	2387	2441
25°	2312	2373	2442
30°	2273	2350	2425
35°	2228	2316	2389
40°	2175	2268	2341
45°	2108	2206	2275
50°	2032	2129	2193
55°	1939	2028	2088
60°	1828	1897	1943
65°	1660	1714	1747
70°	1458	1491	1511
75°	1231	1248	1257
80°	983	996	970
85°	662	689	662



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.9	3.5
10°-20°	485.6	10.2
20°-30°	736.8	15.4
30°-40°	879.7	18.4
40°-50°	890.6	18.6
50°-60°	769.8	16.1
60°-70°	533.6	11.2
70°-80°	258.2	5.4
80°-90°	56.8	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°	1391.4	29.1
0°-40°	2271.1	47.5
0°-60°	3931.5	82.2
0°-90°	4780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4780.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1782	1782	1782	1782	1782	
5°	1775	1773	1772	1780	1784	169
15°	1701	1705	1717	1737	1746	479
25°	1557	1568	1598	1631	1645	717
35°	1357	1369	1410	1446	1454	847
45°	1108	1123	1159	1188	1195	855
55°	827	835	864	900	890	739
65°	521	526	538	547	549	516
75°	237	238	240	238	242	254
85°	43	46	45	43	43	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1781.9	1781.9	1781.9	1781.9	1781.9
2.5°	1781.9	1780.2	1776.8	1781.9	1785.4
5°	1775.1	1773.4	1771.7	1780.2	1783.7
7.5°	1763.1	1763.1	1764.8	1773.4	1776.8
10°	1745.9	1747.6	1751.1	1764.8	1768.2
12.5°	1725.4	1728.8	1737.4	1752.8	1759.7
15°	1701.3	1704.8	1716.8	1737.4	1745.9
17.5°	1670.5	1677.3	1694.5	1718.5	1727.1
20°	1636.2	1644.7	1667.0	1694.5	1704.8
22.5°	1598.4	1607.0	1636.2	1665.3	1675.6
25°	1557.3	1567.6	1598.4	1631.0	1644.7
27.5°	1512.7	1524.7	1559.0	1593.3	1607.0
30°	1462.9	1476.7	1512.7	1548.7	1560.7
32.5°	1409.8	1423.5	1464.7	1499.0	1511.0
35°	1356.6	1368.6	1409.8	1445.8	1454.4
37.5°	1296.6	1310.3	1354.9	1385.8	1397.8
40°	1238.3	1252.0	1291.4	1322.3	1332.6
42.5°	1174.8	1188.5	1228.0	1257.1	1265.7
45°	1107.9	1123.4	1159.4	1188.5	1195.4
47.5°	1041.0	1053.0	1090.8	1116.5	1121.7
50°	970.7	982.7	1017.0	1042.8	1047.9
52.5°	897.0	915.8	943.3	962.1	984.4
55°	826.7	835.2	864.4	900.4	890.1
57.5°	756.3	761.5	785.5	800.9	804.4
60°	679.2	686.0	704.9	713.5	722.0
62.5°	598.6	603.7	626.0	634.6	638.0
65°	521.4	526.5	538.5	547.1	548.8
67.5°	442.5	447.6	457.9	464.8	495.7
70°	370.5	373.9	379.0	392.7	384.2
72.5°	301.9	303.6	308.7	308.7	310.4
75°	236.7	238.4	240.1	238.4	241.8
77.5°	176.7	180.1	181.8	180.1	178.4
80°	126.9	130.3	128.6	125.2	125.2
82.5°	82.3	84.0	82.3	80.6	80.6
85°	42.9	46.3	44.6	42.9	42.9
87.5°	15.4	17.2	18.9	20.6	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)