

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: P297085

Luminaire Tested: **D3X-WG-55L82765-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-55L82765-LD5-UNV-24-T1-W2A-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4926.0 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

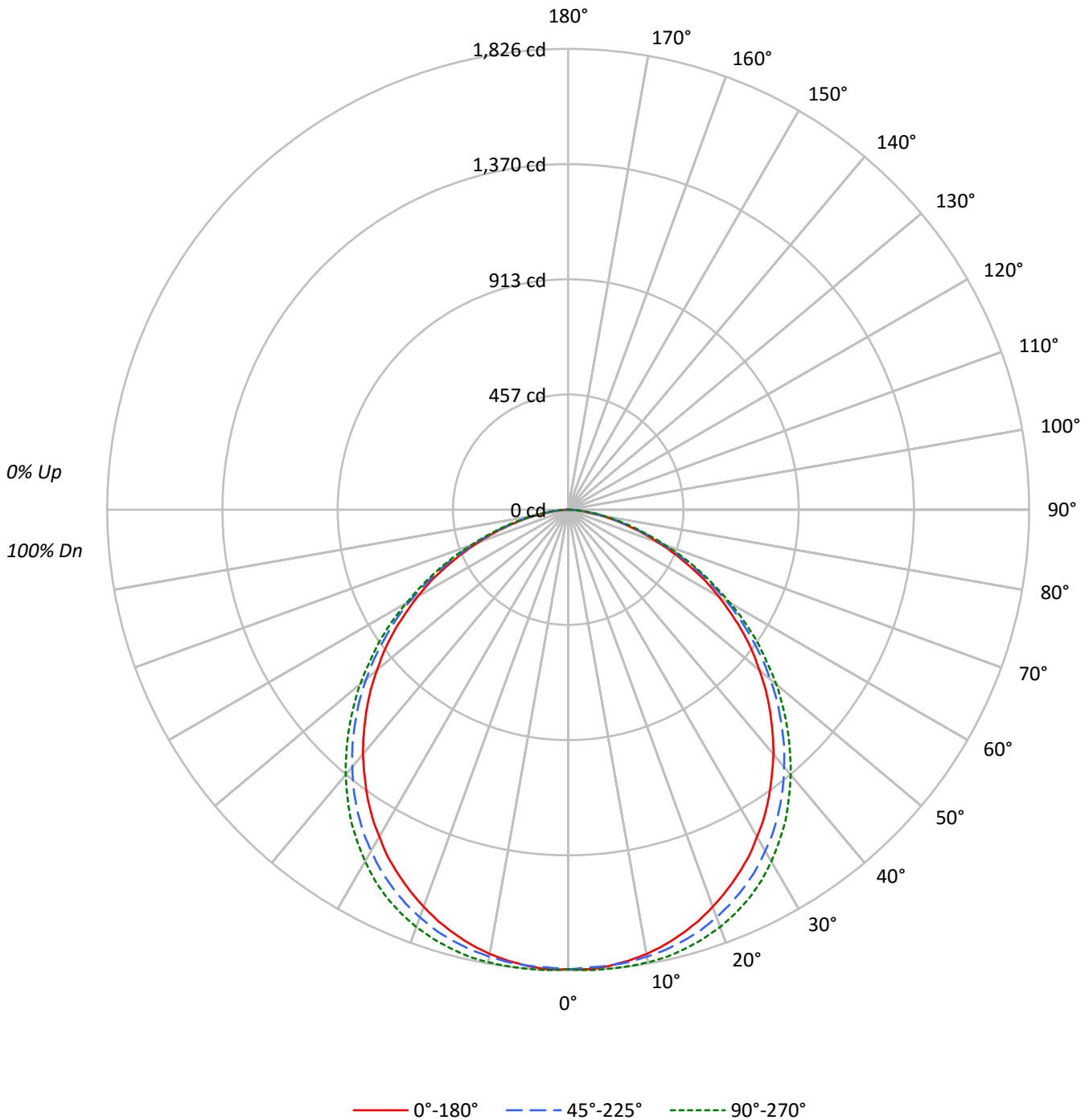
Input Watts (W): 38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
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	47	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	27	38	32	27	37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2450	2450	2450
5°	2452	2450	2467
10°	2442	2457	2488
15°	2424	2463	2507
20°	2398	2461	2519
25°	2366	2449	2520
30°	2325	2426	2500
35°	2278	2391	2467
40°	2222	2337	2408
45°	2152	2270	2337
50°	2069	2187	2253
55°	1979	2078	2144
60°	1852	1947	1994
65°	1691	1781	1826
70°	1485	1562	1603
75°	1256	1321	1367
80°	998	1094	1121
85°	681	817	790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.0	3.5
10°-20°	499.5	10.1
20°-30°	759.2	15.4
30°-40°	905.9	18.4
40°-50°	914.9	18.6
50°-60°	788.2	16.0
60°-70°	549.5	11.2
70°-80°	272.3	5.5
80°-90°	63.5	1.3
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°	1431.7	29.1
0°-40°	2337.6	47.5
0°-60°	4040.7	82.0
0°-90°	4926.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4926.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1821	1821	1821	1821	1821	
5°	1816	1814	1814	1823	1826	172
15°	1740	1749	1768	1791	1800	491
25°	1593	1615	1650	1683	1698	734
35°	1387	1410	1456	1489	1502	867
45°	1131	1156	1193	1221	1228	872
55°	844	861	886	907	914	752
65°	531	542	559	565	574	527
75°	242	245	254	259	263	261
85°	44	53	53	49	51	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1821.0	1821.0	1821.0	1821.0	1821.0
2.5°	1822.8	1819.3	1815.7	1822.8	1826.3
5°	1815.7	1814.0	1814.0	1822.8	1826.3
7.5°	1803.4	1803.4	1808.7	1821.0	1824.6
10°	1787.5	1791.0	1798.1	1815.7	1821.0
12.5°	1766.3	1773.4	1785.7	1806.9	1814.0
15°	1739.9	1748.7	1768.1	1791.0	1799.9
17.5°	1709.9	1722.2	1746.9	1773.4	1782.2
20°	1674.6	1690.5	1718.7	1748.7	1759.3
22.5°	1635.8	1655.2	1686.9	1718.7	1731.0
25°	1593.4	1614.6	1649.9	1683.4	1697.5
27.5°	1549.3	1570.5	1609.3	1642.8	1656.9
30°	1496.4	1521.1	1561.6	1596.9	1609.3
32.5°	1445.2	1469.9	1512.2	1544.0	1556.4
35°	1387.0	1409.9	1455.8	1489.3	1501.7
37.5°	1325.2	1351.7	1395.8	1425.8	1436.4
40°	1265.2	1288.1	1330.5	1360.5	1371.1
42.5°	1198.1	1222.8	1265.2	1291.7	1300.5
45°	1131.1	1155.8	1192.9	1221.1	1228.1
47.5°	1062.3	1085.2	1122.3	1145.2	1152.3
50°	988.2	1009.3	1044.6	1067.6	1076.4
52.5°	917.6	937.0	967.0	986.4	991.7
55°	843.5	861.1	885.8	907.0	914.0
57.5°	764.1	783.5	806.4	824.1	829.3
60°	688.2	704.1	723.5	739.4	741.1
62.5°	614.1	621.1	638.8	652.9	654.7
65°	531.1	541.7	559.4	564.7	573.5
67.5°	455.3	462.3	476.4	483.5	490.6
70°	377.6	382.9	397.0	405.9	407.6
72.5°	310.6	312.3	322.9	330.0	331.7
75°	241.7	245.3	254.1	259.4	262.9
77.5°	183.5	187.0	194.1	197.6	197.6
80°	128.8	134.1	141.2	142.9	144.7
82.5°	82.9	90.0	95.3	97.1	93.5
85°	44.1	52.9	52.9	49.4	51.2
87.5°	15.9	19.4	21.2	22.9	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)