

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: P297218

Luminaire Tested: **D3X-WG-50L92765-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297218
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-50L92765-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4145.0 lumens
Efficiency: N/A
Efficacy: 117.4 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

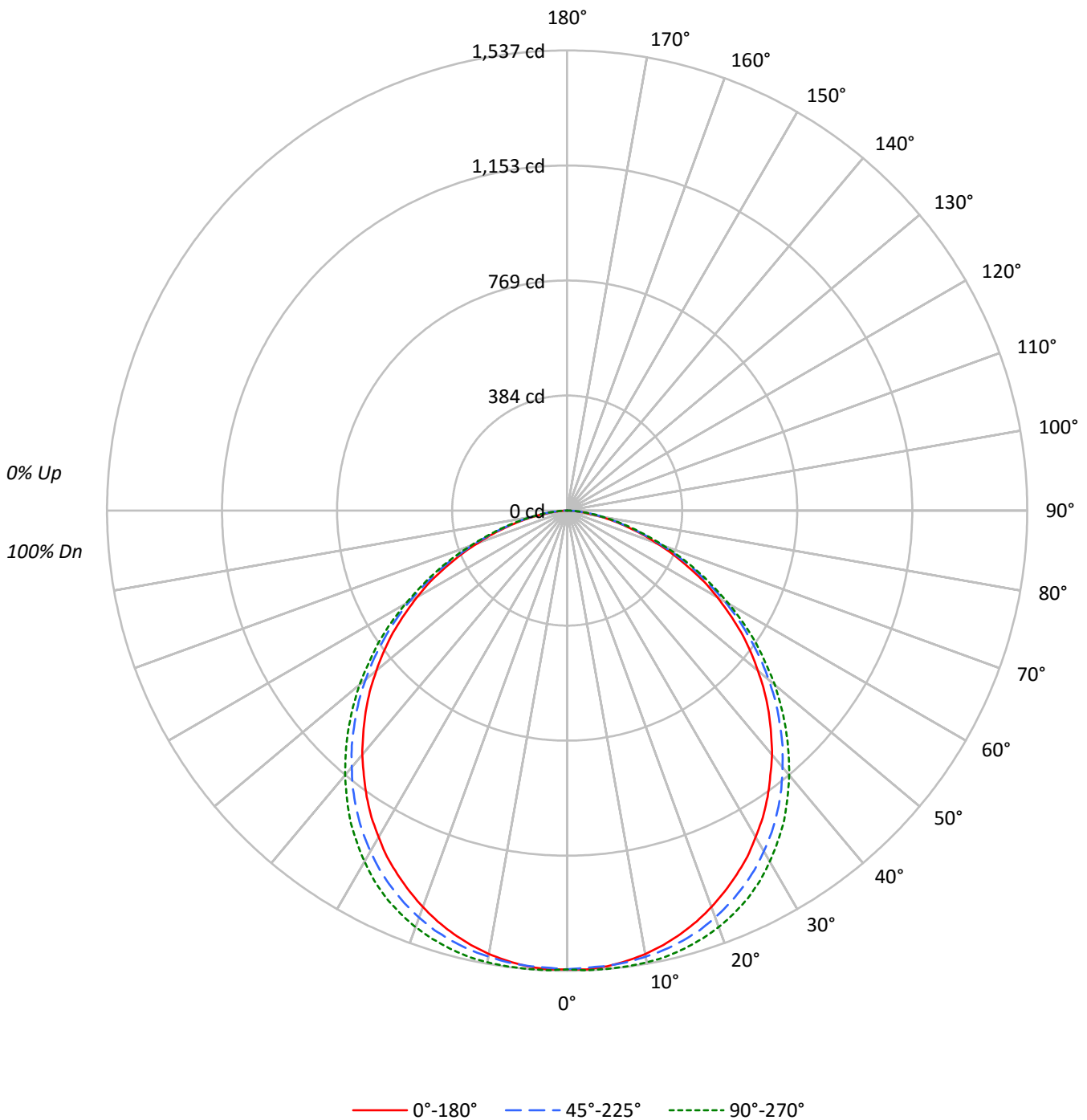
Input Watts (W): 35.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2062	2062	2062
5°	2064	2062	2076
10°	2055	2067	2093
15°	2039	2072	2110
20°	2018	2071	2120
25°	1991	2061	2121
30°	1956	2042	2104
35°	1917	2012	2076
40°	1870	1966	2026
45°	1811	1910	1966
50°	1741	1840	1896
55°	1665	1749	1804
60°	1558	1638	1678
65°	1423	1499	1536
70°	1250	1314	1349
75°	1057	1111	1150
80°	840	921	944
85°	573	687	665



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.6	3.5
10°-20°	420.3	10.1
20°-30°	638.8	15.4
30°-40°	762.2	18.4
40°-50°	769.8	18.6
50°-60°	663.3	16.0
60°-70°	462.4	11.2
70°-80°	229.1	5.5
80°-90°	53.4	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°	1204.7	29.1
0°-40°	1967.0	47.5
0°-60°	3400.1	82.0
0°-90°	4145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4145.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1532	1532	1532	1532	1532	
5°	1528	1526	1526	1534	1537	145
15°	1464	1471	1488	1507	1514	413
25°	1341	1359	1388	1416	1428	618
35°	1167	1186	1225	1253	1264	729
45°	952	972	1004	1028	1033	734
55°	710	725	745	763	769	633
65°	447	456	471	475	483	444
75°	203	206	214	218	221	219
85°	37	44	44	42	43	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1532.3	1532.3	1532.3	1532.3	1532.3
2.5°	1533.8	1530.8	1527.9	1533.8	1536.8
5°	1527.9	1526.4	1526.4	1533.8	1536.8
7.5°	1517.5	1517.5	1521.9	1532.3	1535.3
10°	1504.1	1507.1	1513.0	1527.9	1532.3
12.5°	1486.3	1492.2	1502.6	1520.4	1526.4
15°	1464.0	1471.4	1487.8	1507.1	1514.5
17.5°	1438.8	1449.2	1470.0	1492.2	1499.7
20°	1409.1	1422.4	1446.2	1471.4	1480.4
22.5°	1376.4	1392.7	1419.5	1446.2	1456.6
25°	1340.8	1358.6	1388.3	1416.5	1428.4
27.5°	1303.7	1321.5	1354.1	1382.4	1394.2
30°	1259.1	1279.9	1314.1	1343.7	1354.1
32.5°	1216.1	1236.8	1272.5	1299.2	1309.6
35°	1167.1	1186.4	1225.0	1253.2	1263.6
37.5°	1115.1	1137.4	1174.5	1199.7	1208.6
40°	1064.6	1083.9	1119.5	1144.8	1153.7
42.5°	1008.2	1029.0	1064.6	1086.9	1094.3
45°	951.8	972.5	1003.7	1027.5	1033.4
47.5°	893.9	913.2	944.3	963.6	969.6
50°	831.5	849.3	879.0	898.3	905.7
52.5°	772.1	788.4	813.7	830.0	834.5
55°	709.7	724.6	745.4	763.2	769.1
57.5°	642.9	659.3	678.6	693.4	697.9
60°	579.1	592.4	608.8	622.1	623.6
62.5°	516.7	522.7	537.5	549.4	550.9
65°	446.9	455.8	470.7	475.1	482.6
67.5°	383.1	389.0	400.9	406.8	412.8
70°	317.7	322.2	334.1	341.5	343.0
72.5°	261.3	262.8	271.7	277.7	279.1
75°	203.4	206.4	213.8	218.3	221.2
77.5°	154.4	157.4	163.3	166.3	166.3
80°	108.4	112.8	118.8	120.3	121.8
82.5°	69.8	75.7	80.2	81.7	78.7
85°	37.1	44.5	44.5	41.6	43.1
87.5°	13.4	16.3	17.8	19.3	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)