

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: P297079

Luminaire Tested: **D3X-WG-50L82765-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297079
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-50L82765-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4768.0 lumens
Efficiency: N/A
Efficacy: 133.9 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

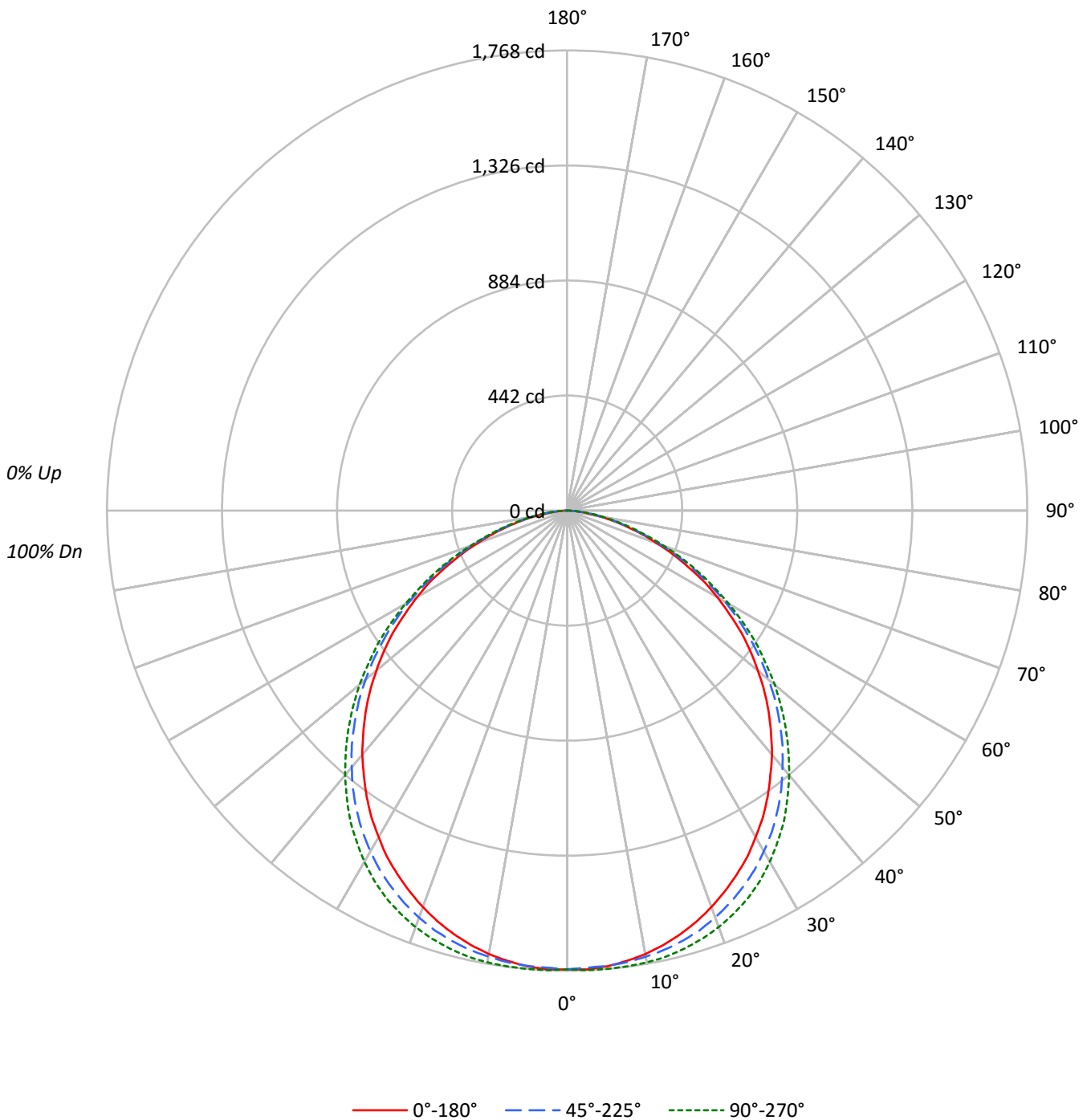
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2372	2372	2372
5°	2374	2371	2388
10°	2364	2378	2408
15°	2346	2384	2427
20°	2321	2382	2438
25°	2290	2371	2439
30°	2250	2348	2420
35°	2205	2315	2387
40°	2151	2262	2331
45°	2083	2197	2262
50°	2002	2116	2181
55°	1915	2011	2075
60°	1792	1884	1930
65°	1637	1724	1767
70°	1438	1512	1552
75°	1216	1278	1323
80°	966	1058	1086
85°	659	790	764



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.5	3.5
10°-20°	483.5	10.1
20°-30°	734.8	15.4
30°-40°	876.8	18.4
40°-50°	885.5	18.6
50°-60°	762.9	16.0
60°-70°	531.9	11.2
70°-80°	263.6	5.5
80°-90°	61.4	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°	1385.8	29.1
0°-40°	2262.6	47.5
0°-60°	3911.1	82.0
0°-90°	4768.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4768.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1763	1763	1763	1763	1763	
5°	1758	1756	1756	1764	1768	167
15°	1684	1693	1711	1734	1742	475
25°	1542	1563	1597	1629	1643	710
35°	1342	1365	1409	1442	1454	839
45°	1095	1119	1155	1182	1189	844
55°	816	834	857	878	885	728
65°	514	524	541	547	555	511
75°	234	237	246	251	254	252
85°	43	51	51	48	50	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1762.6	1762.6	1762.6	1762.6	1762.6
2.5°	1764.3	1760.9	1757.5	1764.3	1767.8
5°	1757.5	1755.8	1755.8	1764.3	1767.8
7.5°	1745.5	1745.5	1750.7	1762.6	1766.0
10°	1730.2	1733.6	1740.4	1757.5	1762.6
12.5°	1709.7	1716.5	1728.5	1749.0	1755.8
15°	1684.1	1692.6	1711.4	1733.6	1742.1
17.5°	1655.0	1667.0	1690.9	1716.5	1725.1
20°	1620.9	1636.2	1663.6	1692.6	1702.8
22.5°	1583.3	1602.1	1632.8	1663.6	1675.5
25°	1542.3	1562.8	1597.0	1629.4	1643.1
27.5°	1499.6	1520.1	1557.7	1590.1	1603.8
30°	1448.4	1472.3	1511.6	1545.7	1557.7
32.5°	1398.8	1422.7	1463.7	1494.5	1506.4
35°	1342.5	1364.7	1409.1	1441.5	1453.5
37.5°	1282.7	1308.3	1351.0	1380.0	1390.3
40°	1224.6	1246.8	1287.8	1316.8	1327.1
42.5°	1159.7	1183.6	1224.6	1250.2	1258.8
45°	1094.8	1118.7	1154.6	1181.9	1188.7
47.5°	1028.2	1050.4	1086.3	1108.5	1115.3
50°	956.5	977.0	1011.1	1033.3	1041.9
52.5°	888.1	906.9	936.0	954.8	959.9
55°	816.4	833.5	857.4	877.9	884.7
57.5°	739.6	758.3	780.5	797.6	802.7
60°	666.1	681.5	700.3	715.6	717.3
62.5°	594.4	601.2	618.3	632.0	633.7
65°	514.1	524.3	541.4	546.6	555.1
67.5°	440.7	447.5	461.2	468.0	474.8
70°	365.5	370.6	384.3	392.8	394.5
72.5°	300.6	302.3	312.6	319.4	321.1
75°	234.0	237.4	245.9	251.1	254.5
77.5°	177.6	181.0	187.9	191.3	191.3
80°	124.7	129.8	136.6	138.3	140.1
82.5°	80.3	87.1	92.2	93.9	90.5
85°	42.7	51.2	51.2	47.8	49.5
87.5°	15.4	18.8	20.5	22.2	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)