

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: P297075

Luminaire Tested: **D3X-WG-50L82765-LD5-UNV-24-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297075
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-2700K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4307.0 lumens
Efficiency: N/A
Efficacy: 123.1 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

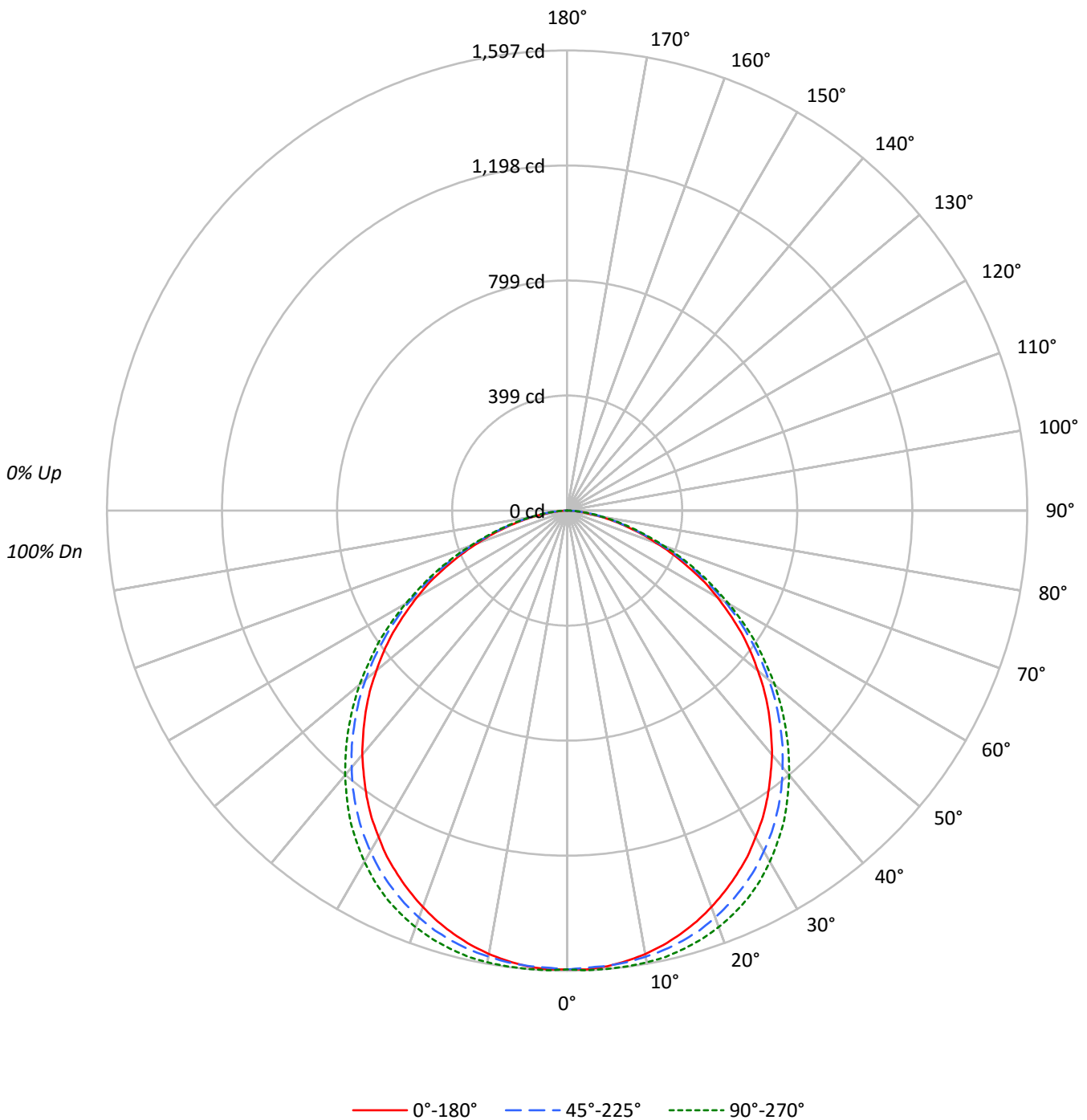
Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2142	2142	2142
5°	2144	2142	2157
10°	2135	2148	2175
15°	2119	2153	2192
20°	2096	2152	2202
25°	2068	2142	2203
30°	2033	2121	2186
35°	1992	2091	2157
40°	1943	2043	2106
45°	1882	1985	2043
50°	1809	1912	1970
55°	1730	1817	1875
60°	1619	1702	1744
65°	1479	1557	1596
70°	1299	1365	1402
75°	1099	1155	1195
80°	872	956	980
85°	596	715	690



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.3	3.5
10°-20°	436.8	10.1
20°-30°	663.8	15.4
30°-40°	792.0	18.4
40°-50°	799.9	18.6
50°-60°	689.2	16.0
60°-70°	480.4	11.2
70°-80°	238.1	5.5
80°-90°	55.5	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°	1251.8	29.1
0°-40°	2043.9	47.5
0°-60°	3533.0	82.0
0°-90°	4307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4307.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1592	1592	1592	1592	1592	
5°	1588	1586	1586	1594	1597	151
15°	1521	1529	1546	1566	1574	429
25°	1393	1412	1443	1472	1484	642
35°	1213	1233	1273	1302	1313	758
45°	989	1011	1043	1068	1074	762
55°	738	753	774	793	799	657
65°	464	474	489	494	501	461
75°	211	214	222	227	230	228
85°	39	46	46	43	45	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1592.2	1592.2	1592.2	1592.2	1592.2
2.5°	1593.7	1590.7	1587.6	1593.7	1596.8
5°	1587.6	1586.0	1586.0	1593.7	1596.8
7.5°	1576.8	1576.8	1581.4	1592.2	1595.3
10°	1562.9	1566.0	1572.1	1587.6	1592.2
12.5°	1544.4	1550.6	1561.3	1579.9	1586.0
15°	1521.2	1529.0	1545.9	1566.0	1573.7
17.5°	1495.0	1505.8	1527.4	1550.6	1558.3
20°	1464.2	1478.0	1502.7	1529.0	1538.2
22.5°	1430.2	1447.2	1475.0	1502.7	1513.5
25°	1393.2	1411.7	1442.6	1471.9	1484.2
27.5°	1354.6	1373.1	1407.1	1436.4	1448.7
30°	1308.3	1329.9	1365.4	1396.3	1407.1
32.5°	1263.6	1285.2	1322.2	1350.0	1360.8
35°	1212.7	1232.7	1272.8	1302.2	1313.0
37.5°	1158.7	1181.8	1220.4	1246.6	1255.9
40°	1106.2	1126.3	1163.3	1189.5	1198.8
42.5°	1047.6	1069.2	1106.2	1129.4	1137.1
45°	989.0	1010.6	1043.0	1067.6	1073.8
47.5°	928.8	948.8	981.2	1001.3	1007.5
50°	864.0	882.5	913.4	933.4	941.1
52.5°	802.3	819.2	845.5	862.4	867.1
55°	737.5	752.9	774.5	793.0	799.2
57.5°	668.0	685.0	705.1	720.5	725.1
60°	601.7	615.6	632.6	646.4	648.0
62.5°	536.9	543.1	558.5	570.8	572.4
65°	464.4	473.7	489.1	493.7	501.4
67.5°	398.1	404.2	416.6	422.7	428.9
70°	330.2	334.8	347.1	354.9	356.4
72.5°	271.5	273.1	282.3	288.5	290.1
75°	211.4	214.5	222.2	226.8	229.9
77.5°	160.5	163.5	169.7	172.8	172.8
80°	112.6	117.3	123.4	125.0	126.5
82.5°	72.5	78.7	83.3	84.9	81.8
85°	38.6	46.3	46.3	43.2	44.7
87.5°	13.9	17.0	18.5	20.1	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)