

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: P297220

Luminaire Tested: **D3X-WG-50L92765-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297220
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-5000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4339.0 lumens
Efficiency: N/A
Efficacy: 121.2 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

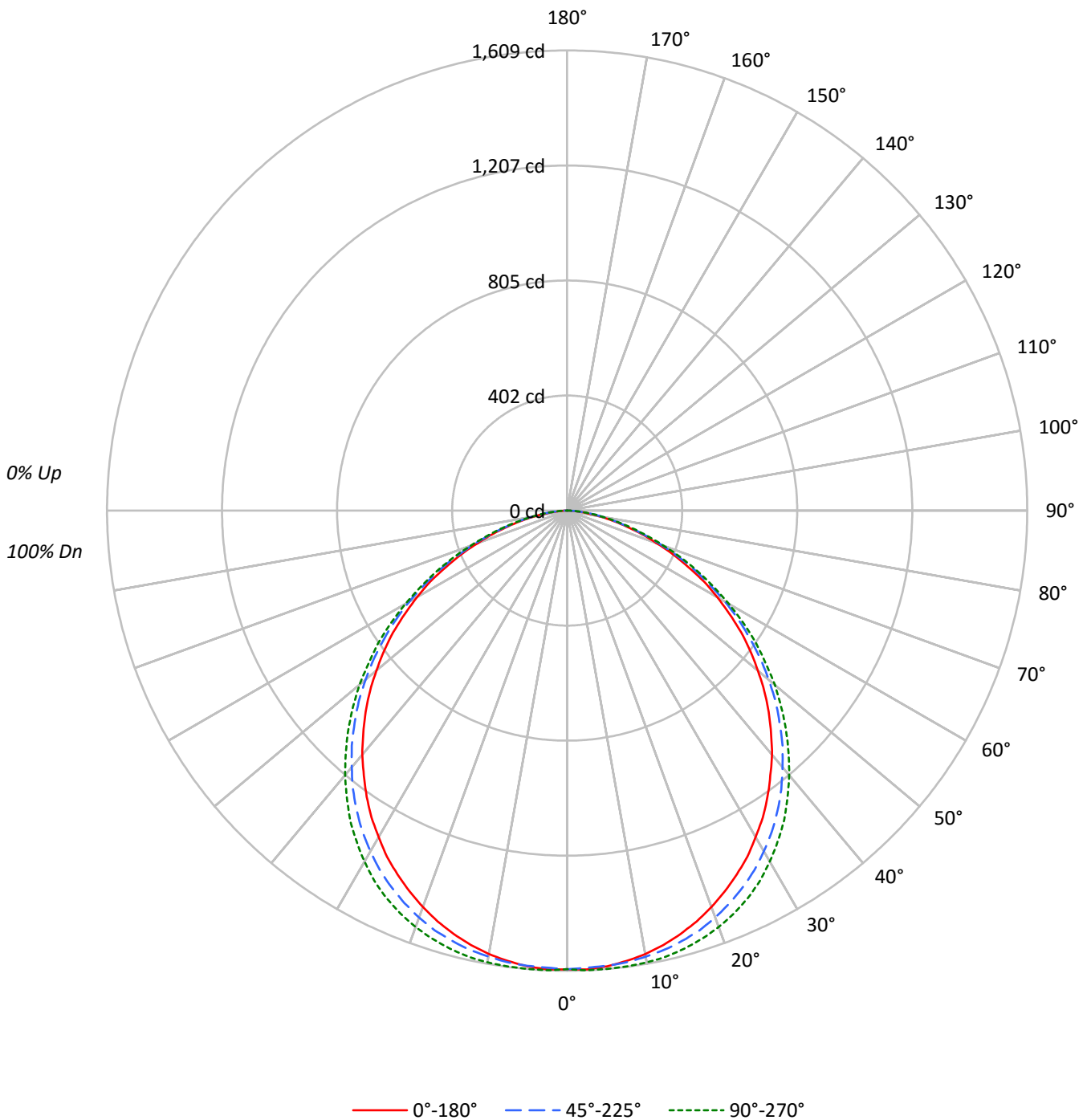
Input Watts (W): 35.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2158	2158	2158
5°	2160	2158	2173
10°	2151	2164	2191
15°	2135	2169	2208
20°	2112	2168	2219
25°	2084	2158	2220
30°	2048	2137	2202
35°	2007	2106	2173
40°	1957	2058	2121
45°	1896	1999	2058
50°	1822	1926	1985
55°	1743	1830	1889
60°	1631	1715	1757
65°	1489	1569	1608
70°	1308	1376	1412
75°	1107	1163	1204
80°	879	963	988
85°	601	719	696



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.4	3.5
10°-20°	440.0	10.1
20°-30°	668.7	15.4
30°-40°	797.9	18.4
40°-50°	805.9	18.6
50°-60°	694.3	16.0
60°-70°	484.0	11.2
70°-80°	239.9	5.5
80°-90°	55.9	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°	1261.1	29.1
0°-40°	2059.0	47.5
0°-60°	3559.2	82.0
0°-90°	4339.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4339.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1604	1604	1604	1604	1604	
5°	1599	1598	1598	1606	1609	152
15°	1532	1540	1557	1578	1585	432
25°	1404	1422	1453	1483	1495	647
35°	1222	1242	1282	1312	1323	764
45°	996	1018	1051	1076	1082	768
55°	743	758	780	799	805	662
65°	468	477	493	497	505	465
75°	213	216	224	228	232	230
85°	39	47	47	44	45	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1604.0	1604.0	1604.0	1604.0	1604.0
2.5°	1605.6	1602.5	1599.4	1605.6	1608.7
5°	1599.4	1597.8	1597.8	1605.6	1608.7
7.5°	1588.5	1588.5	1593.2	1604.0	1607.1
10°	1574.5	1577.6	1583.8	1599.4	1604.0
12.5°	1555.9	1562.1	1573.0	1591.6	1597.8
15°	1532.5	1540.3	1557.4	1577.6	1585.4
17.5°	1506.1	1517.0	1538.8	1562.1	1569.8
20°	1475.0	1489.0	1513.9	1540.3	1549.6
22.5°	1440.8	1457.9	1485.9	1513.9	1524.8
25°	1403.5	1422.2	1453.3	1482.8	1495.2
27.5°	1364.7	1383.3	1417.5	1447.1	1459.5
30°	1318.0	1339.8	1375.6	1406.6	1417.5
32.5°	1273.0	1294.7	1332.0	1360.0	1370.9
35°	1221.7	1241.9	1282.3	1311.8	1322.7
37.5°	1167.3	1190.6	1229.5	1255.9	1265.2
40°	1114.4	1134.6	1171.9	1198.4	1207.7
42.5°	1055.4	1077.1	1114.4	1137.7	1145.5
45°	996.3	1018.1	1050.7	1075.6	1081.8
47.5°	935.7	955.9	988.5	1008.7	1015.0
50°	870.4	889.1	920.1	940.4	948.1
52.5°	808.2	825.3	851.8	868.9	873.5
55°	743.0	758.5	780.3	798.9	805.1
57.5°	673.0	690.1	710.3	725.9	730.5
60°	606.2	620.2	637.3	651.3	652.8
62.5°	540.9	547.1	562.7	575.1	576.6
65°	467.8	477.2	492.7	497.4	505.1
67.5°	401.0	407.2	419.7	425.9	432.1
70°	332.6	337.3	349.7	357.5	359.0
72.5°	273.6	275.1	284.4	290.7	292.2
75°	212.9	216.0	223.8	228.5	231.6
77.5°	161.6	164.8	171.0	174.1	174.1
80°	113.5	118.1	124.3	125.9	127.5
82.5°	73.1	79.3	83.9	85.5	82.4
85°	38.9	46.6	46.6	43.5	45.1
87.5°	14.0	17.1	18.7	20.2	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)