

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: P297219

Luminaire Tested: **D3X-WG-50L92765-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297219
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-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4253.0 lumens
Efficiency: N/A
Efficacy: 119.5 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

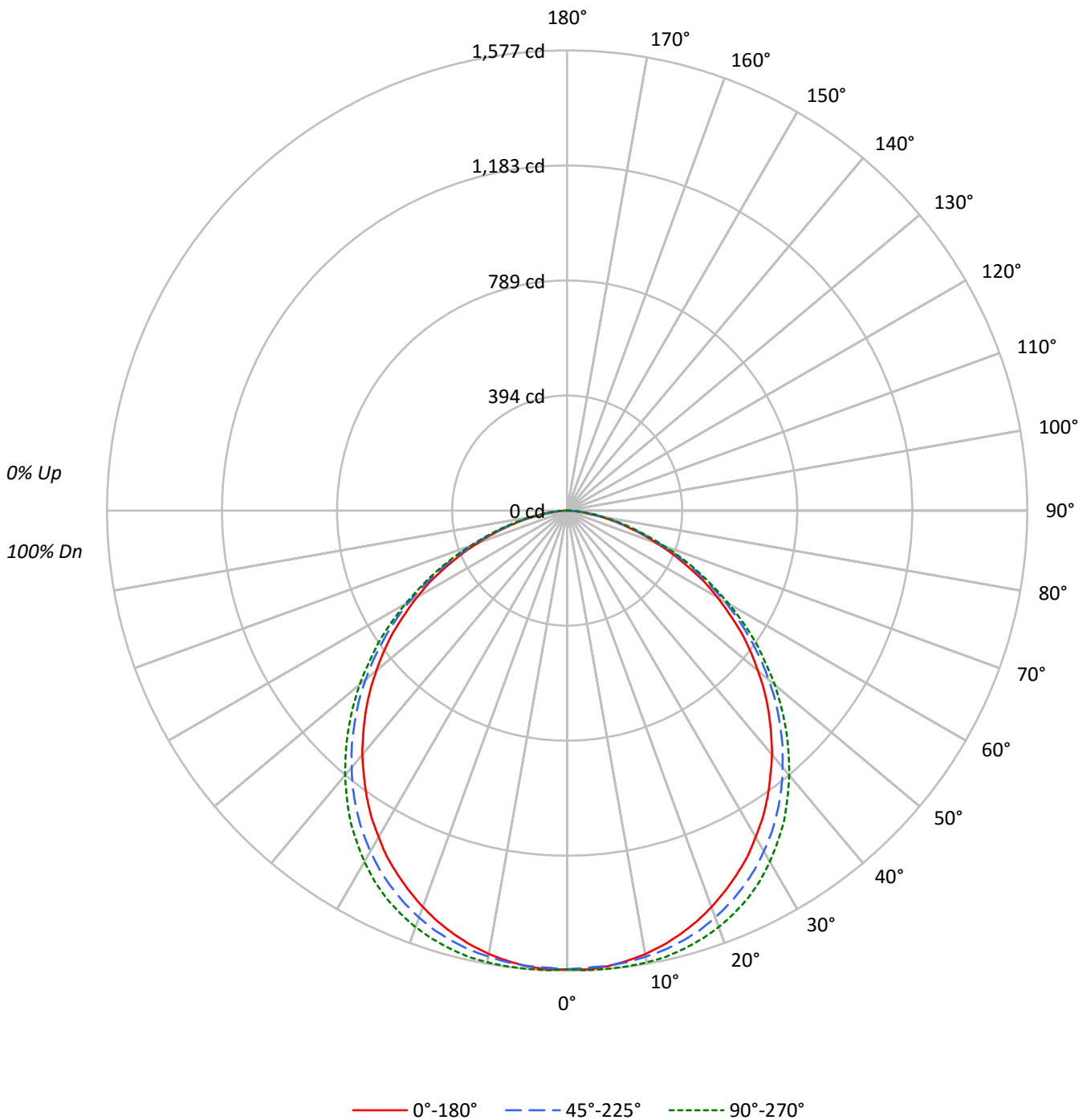
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2115	2115	2115
5°	2117	2115	2130
10°	2109	2121	2148
15°	2092	2126	2165
20°	2070	2125	2175
25°	2042	2115	2176
30°	2007	2095	2159
35°	1967	2065	2130
40°	1919	2018	2079
45°	1858	1960	2018
50°	1786	1888	1945
55°	1708	1794	1851
60°	1599	1681	1722
65°	1460	1537	1576
70°	1282	1349	1384
75°	1085	1141	1180
80°	862	945	968
85°	588	706	682



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.4	3.5
10°-20°	431.3	10.1
20°-30°	655.4	15.4
30°-40°	782.1	18.4
40°-50°	789.9	18.6
50°-60°	680.5	16.0
60°-70°	474.4	11.2
70°-80°	235.1	5.5
80°-90°	54.8	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°	1236.1	29.1
0°-40°	2018.2	47.5
0°-60°	3488.7	82.0
0°-90°	4253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4253.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1572	1572	1572	1572	1572	
5°	1568	1566	1566	1574	1577	149
15°	1502	1510	1526	1546	1554	424
25°	1376	1394	1424	1453	1466	634
35°	1198	1217	1257	1286	1296	748
45°	977	998	1030	1054	1060	753
55°	728	744	765	783	789	649
65°	459	468	483	488	495	455
75°	209	212	219	224	227	225
85°	38	46	46	43	44	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1572.2	1572.2	1572.2	1572.2	1572.2
2.5°	1573.8	1570.7	1567.7	1573.8	1576.8
5°	1567.7	1566.2	1566.2	1573.8	1576.8
7.5°	1557.0	1557.0	1561.6	1572.2	1575.3
10°	1543.3	1546.3	1552.4	1567.7	1572.2
12.5°	1525.0	1531.1	1541.8	1560.1	1566.2
15°	1502.2	1509.8	1526.5	1546.3	1554.0
17.5°	1476.3	1486.9	1508.3	1531.1	1538.7
20°	1445.8	1459.5	1483.9	1509.8	1518.9
22.5°	1412.3	1429.0	1456.5	1483.9	1494.5
25°	1375.7	1394.0	1424.5	1453.4	1465.6
27.5°	1337.6	1355.9	1389.4	1418.4	1430.6
30°	1291.9	1313.3	1348.3	1378.8	1389.4
32.5°	1247.7	1269.1	1305.6	1333.1	1343.7
35°	1197.5	1217.3	1256.9	1285.8	1296.5
37.5°	1144.1	1167.0	1205.1	1231.0	1240.1
40°	1092.3	1112.1	1148.7	1174.6	1183.8
42.5°	1034.5	1055.8	1092.3	1115.2	1122.8
45°	976.6	997.9	1029.9	1054.3	1060.4
47.5°	917.1	936.9	968.9	988.7	994.8
50°	853.2	871.4	901.9	921.7	929.3
52.5°	792.2	809.0	834.9	851.6	856.2
55°	728.2	743.5	764.8	783.1	789.2
57.5°	659.7	676.4	696.2	711.5	716.0
60°	594.2	607.9	624.6	638.3	639.9
62.5°	530.2	536.3	551.5	563.7	565.2
65°	458.6	467.7	482.9	487.5	495.1
67.5°	393.1	399.2	411.3	417.4	423.5
70°	326.0	330.6	342.8	350.4	351.9
72.5°	268.1	269.7	278.8	284.9	286.4
75°	208.7	211.8	219.4	224.0	227.0
77.5°	158.4	161.5	167.6	170.6	170.6
80°	111.2	115.8	121.9	123.4	124.9
82.5°	71.6	77.7	82.3	83.8	80.7
85°	38.1	45.7	45.7	42.7	44.2
87.5°	13.7	16.8	18.3	19.8	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)