

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: P297159

Luminaire Tested: **D3X-WG-60L93050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297159
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-60L93050-LD5-UNV-24-T1-W2A-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4407.0 lumens
Efficiency: N/A
Efficacy: 99.5 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

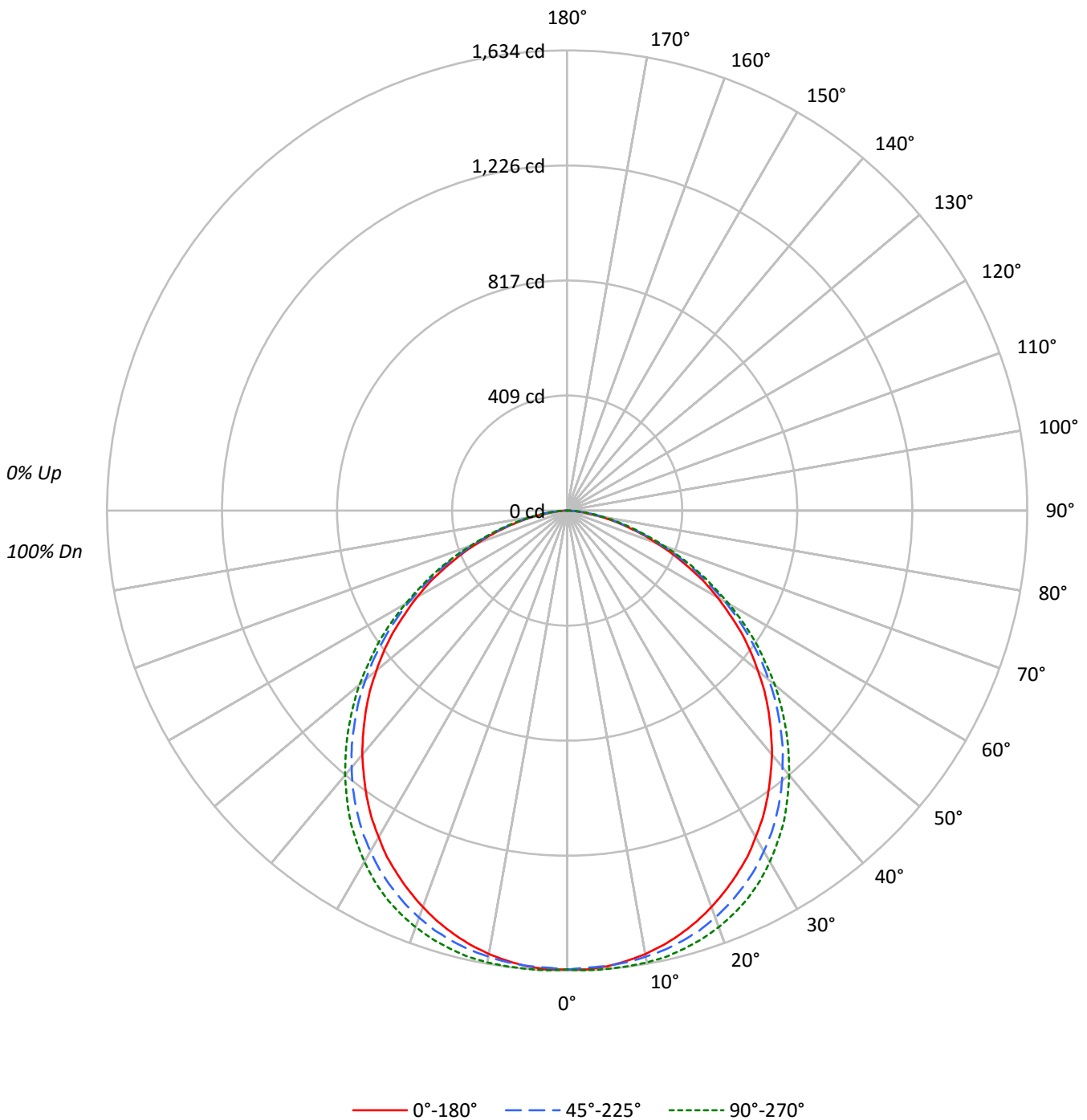
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2192	2192	2192
5°	2194	2192	2207
10°	2185	2198	2226
15°	2168	2203	2243
20°	2145	2202	2254
25°	2116	2191	2255
30°	2080	2171	2237
35°	2038	2139	2207
40°	1988	2091	2154
45°	1925	2031	2091
50°	1850	1956	2016
55°	1770	1859	1918
60°	1657	1742	1784
65°	1513	1593	1634
70°	1329	1397	1435
75°	1124	1182	1223
80°	893	979	1003
85°	610	732	707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.8	3.5
10°-20°	446.9	10.1
20°-30°	679.2	15.4
30°-40°	810.4	18.4
40°-50°	818.5	18.6
50°-60°	705.2	16.0
60°-70°	491.6	11.2
70°-80°	243.6	5.5
80°-90°	56.8	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°	1280.9	29.1
0°-40°	2091.3	47.5
0°-60°	3615.0	82.0
0°-90°	4407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4407.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1629	1629	1629	1629	1629	
5°	1624	1623	1623	1631	1634	154
15°	1557	1564	1582	1602	1610	439
25°	1426	1444	1476	1506	1519	657
35°	1241	1261	1302	1332	1343	776
45°	1012	1034	1067	1092	1099	780
55°	755	770	792	811	818	673
65°	475	485	500	505	513	472
75°	216	219	227	232	235	233
85°	40	47	47	44	46	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1629.2	1629.2	1629.2	1629.2	1629.2
2.5°	1630.8	1627.6	1624.4	1630.8	1633.9
5°	1624.4	1622.9	1622.9	1630.8	1633.9
7.5°	1613.4	1613.4	1618.1	1629.2	1632.3
10°	1599.2	1602.3	1608.7	1624.4	1629.2
12.5°	1580.2	1586.6	1597.6	1616.5	1622.9
15°	1556.6	1564.4	1581.8	1602.3	1610.2
17.5°	1529.7	1540.8	1562.9	1586.6	1594.4
20°	1498.1	1512.4	1537.6	1564.4	1573.9
22.5°	1463.4	1480.8	1509.2	1537.6	1548.7
25°	1425.5	1444.5	1476.0	1506.0	1518.7
27.5°	1386.1	1405.0	1439.7	1469.7	1482.4
30°	1338.7	1360.8	1397.1	1428.7	1439.7
32.5°	1292.9	1315.0	1352.9	1381.3	1392.4
35°	1240.8	1261.3	1302.4	1332.4	1343.4
37.5°	1185.6	1209.3	1248.7	1275.6	1285.0
40°	1131.9	1152.4	1190.3	1217.1	1226.6
42.5°	1071.9	1094.0	1131.9	1155.6	1163.5
45°	1011.9	1034.0	1067.2	1092.4	1098.7
47.5°	950.4	970.9	1004.0	1024.5	1030.9
50°	884.0	903.0	934.6	955.1	963.0
52.5°	820.9	838.3	865.1	882.5	887.2
55°	754.6	770.4	792.5	811.4	817.7
57.5°	683.6	700.9	721.4	737.2	742.0
60°	615.7	629.9	647.2	661.5	663.0
62.5°	549.4	555.7	571.5	584.1	585.7
65°	475.2	484.6	500.4	505.2	513.1
67.5°	407.3	413.6	426.2	432.6	438.9
70°	337.8	342.6	355.2	363.1	364.7
72.5°	277.8	279.4	288.9	295.2	296.8
75°	216.3	219.4	227.3	232.1	235.2
77.5°	164.2	167.3	173.7	176.8	176.8
80°	115.2	120.0	126.3	127.9	129.4
82.5°	74.2	80.5	85.2	86.8	83.7
85°	39.5	47.4	47.4	44.2	45.8
87.5°	14.2	17.4	18.9	20.5	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)