

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: P296876

Luminaire Tested: **D3X-WD-55L93050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-55L93050-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4782.0 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

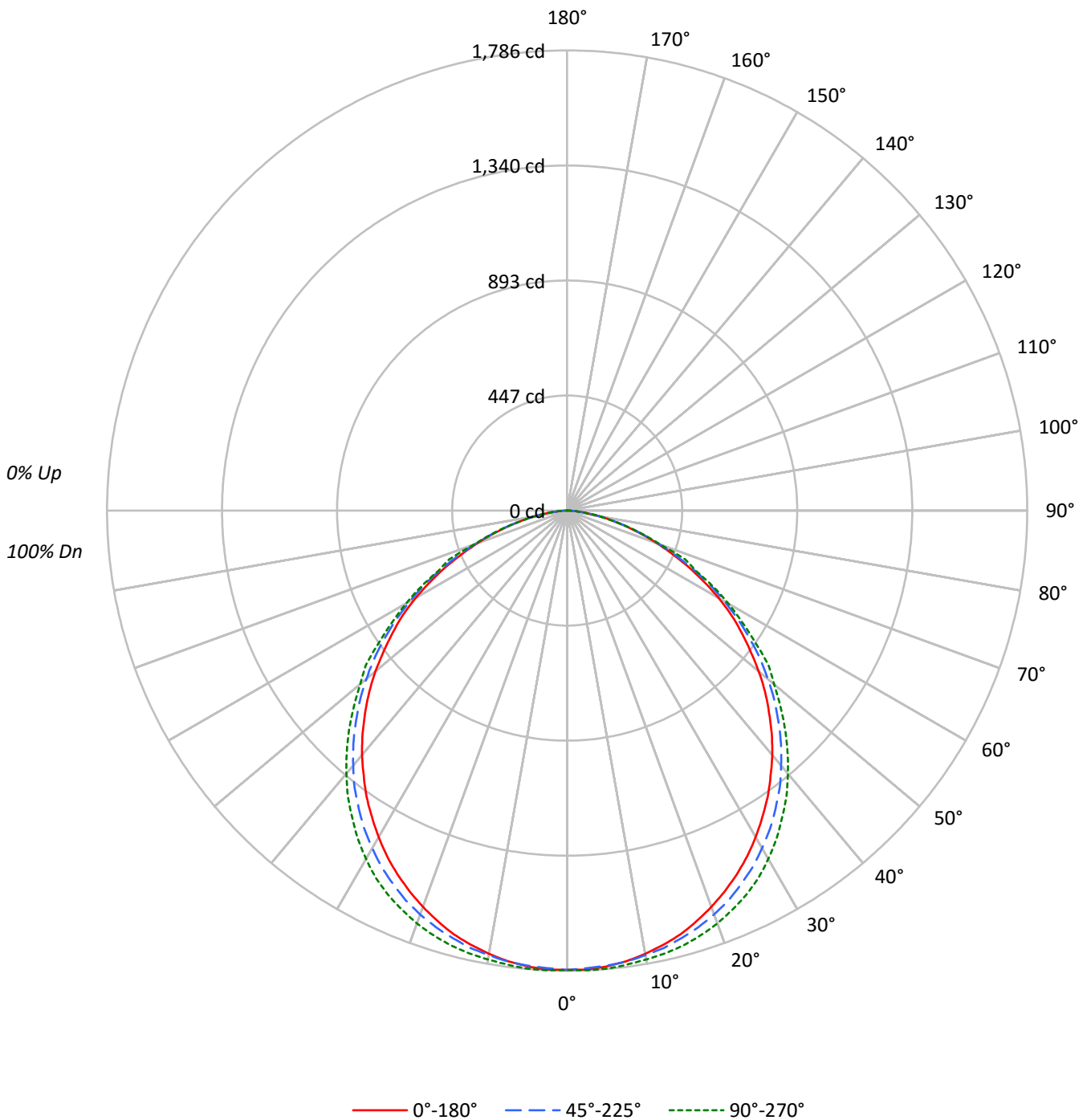
Input Watts (W): 39.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
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	48	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	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2399	2399	2399
5°	2398	2394	2410
10°	2386	2393	2417
15°	2371	2392	2433
20°	2344	2388	2442
25°	2313	2374	2443
30°	2274	2351	2426
35°	2229	2317	2390
40°	2176	2269	2342
45°	2109	2207	2276
50°	2033	2130	2194
55°	1940	2029	2089
60°	1828	1898	1944
65°	1661	1715	1748
70°	1458	1492	1512
75°	1231	1249	1258
80°	984	997	971
85°	662	689	662



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.9	3.5
10°-20°	485.8	10.2
20°-30°	737.2	15.4
30°-40°	880.1	18.4
40°-50°	891.0	18.6
50°-60°	770.2	16.1
60°-70°	533.8	11.2
70°-80°	258.3	5.4
80°-90°	56.8	1.2
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°	1391.9	29.1
0°-40°	2272.0	47.5
0°-60°	3933.2	82.2
0°-90°	4782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4782.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1783	1783	1783	1783	1783	
5°	1776	1774	1772	1781	1784	169
15°	1702	1706	1718	1738	1747	480
25°	1558	1568	1599	1632	1645	717
35°	1357	1369	1410	1446	1455	848
45°	1108	1124	1160	1189	1196	855
55°	827	836	865	901	890	739
65°	522	527	539	547	549	516
75°	237	238	240	238	242	254
85°	43	46	45	43	43	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1782.7	1782.7	1782.7	1782.7	1782.7
2.5°	1782.7	1781.0	1777.5	1782.7	1786.1
5°	1775.8	1774.1	1772.4	1781.0	1784.4
7.5°	1763.8	1763.8	1765.5	1774.1	1777.5
10°	1746.7	1748.4	1751.8	1765.5	1769.0
12.5°	1726.1	1729.5	1738.1	1753.5	1760.4
15°	1702.1	1705.5	1717.5	1738.1	1746.7
17.5°	1671.2	1678.0	1695.2	1719.2	1727.8
20°	1636.9	1645.4	1667.7	1695.2	1705.5
22.5°	1599.1	1607.7	1636.9	1666.0	1676.3
25°	1557.9	1568.2	1599.1	1631.7	1645.4
27.5°	1513.3	1525.3	1559.6	1594.0	1607.7
30°	1463.6	1477.3	1513.3	1549.3	1561.4
32.5°	1410.4	1424.1	1465.3	1499.6	1511.6
35°	1357.2	1369.2	1410.4	1446.4	1455.0
37.5°	1297.1	1310.9	1355.5	1386.4	1398.4
40°	1238.8	1252.5	1292.0	1322.9	1333.2
42.5°	1175.3	1189.0	1228.5	1257.7	1266.2
45°	1108.4	1123.8	1159.9	1189.0	1195.9
47.5°	1041.5	1053.5	1091.2	1117.0	1122.1
50°	971.1	983.1	1017.5	1043.2	1048.3
52.5°	897.4	916.2	943.7	962.6	984.9
55°	827.0	835.6	864.8	900.8	890.5
57.5°	756.7	761.8	785.8	801.3	804.7
60°	679.4	686.3	705.2	713.8	722.3
62.5°	598.8	604.0	626.3	634.8	638.3
65°	521.6	526.7	538.8	547.3	549.0
67.5°	442.7	447.8	458.1	465.0	495.9
70°	370.6	374.0	379.2	392.9	384.3
72.5°	302.0	303.7	308.8	308.8	310.6
75°	236.8	238.5	240.2	238.5	241.9
77.5°	176.7	180.2	181.9	180.2	178.4
80°	127.0	130.4	128.7	125.3	125.3
82.5°	82.4	84.1	82.4	80.6	80.6
85°	42.9	46.3	44.6	42.9	42.9
87.5°	15.4	17.2	18.9	20.6	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)