

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: P297154

Luminaire Tested: **D3X-WG-55L93050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297154
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-55L93050-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: 4060.0 lumens
Efficiency: N/A
Efficacy: 103.6 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

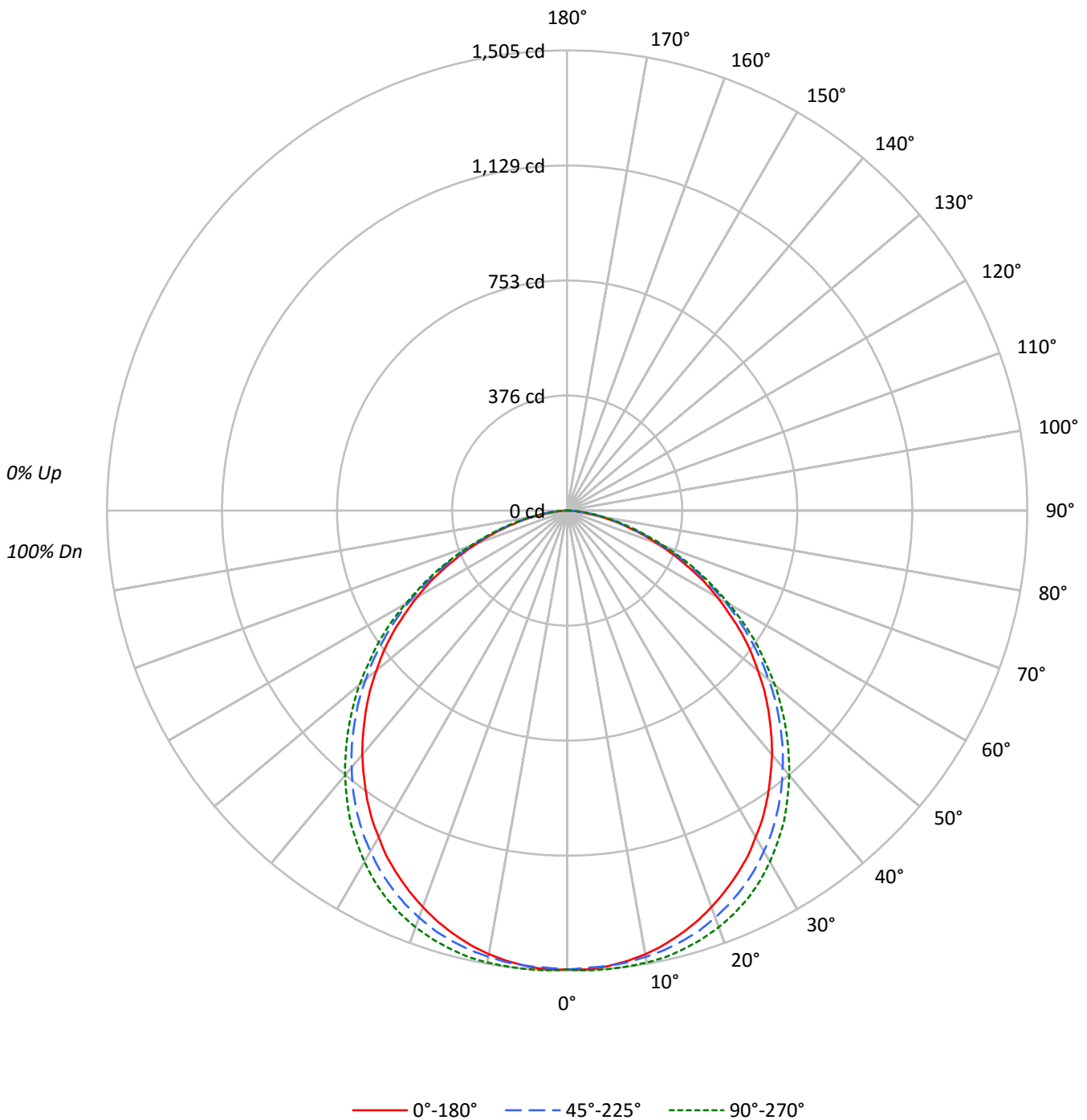
Input Watts (W): 39.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2019	2019	2019
5°	2021	2019	2033
10°	2013	2025	2051
15°	1997	2030	2066
20°	1976	2028	2076
25°	1950	2019	2077
30°	1916	2000	2061
35°	1878	1971	2033
40°	1832	1926	1985
45°	1774	1871	1926
50°	1705	1802	1857
55°	1631	1713	1767
60°	1526	1605	1644
65°	1394	1468	1505
70°	1224	1287	1322
75°	1036	1089	1127
80°	823	901	924
85°	562	673	651



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.6	3.5
10°-20°	411.7	10.1
20°-30°	625.7	15.4
30°-40°	746.6	18.4
40°-50°	754.1	18.6
50°-60°	649.7	16.0
60°-70°	452.9	11.2
70°-80°	224.4	5.5
80°-90°	52.3	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°	1180.0	29.1
0°-40°	1926.6	47.5
0°-60°	3330.3	82.0
0°-90°	4060.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4060.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1501	1501	1501	1501	1501	
5°	1496	1495	1495	1502	1505	142
15°	1434	1441	1457	1476	1483	404
25°	1313	1331	1360	1388	1399	605
35°	1143	1162	1200	1228	1238	714
45°	932	953	983	1006	1012	719
55°	695	710	730	748	753	620
65°	438	446	461	465	473	435
75°	199	202	209	214	217	215
85°	36	44	44	41	42	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1500.9	1500.9	1500.9	1500.9	1500.9
2.5°	1502.4	1499.4	1496.5	1502.4	1505.3
5°	1496.5	1495.1	1495.1	1502.4	1505.3
7.5°	1486.4	1486.4	1490.7	1500.9	1503.8
10°	1473.3	1476.2	1482.0	1496.5	1500.9
12.5°	1455.8	1461.6	1471.8	1489.3	1495.1
15°	1434.0	1441.3	1457.3	1476.2	1483.4
17.5°	1409.3	1419.5	1439.8	1461.6	1468.9
20°	1380.2	1393.3	1416.5	1441.3	1450.0
22.5°	1348.2	1364.2	1390.4	1416.5	1426.7
25°	1313.3	1330.7	1359.8	1387.5	1399.1
27.5°	1276.9	1294.4	1326.4	1354.0	1365.6
30°	1233.3	1253.7	1287.1	1316.2	1326.4
32.5°	1191.1	1211.5	1246.4	1272.6	1282.7
35°	1143.1	1162.0	1199.8	1227.5	1237.7
37.5°	1092.2	1114.0	1150.4	1175.1	1183.8
40°	1042.8	1061.7	1096.6	1121.3	1130.0
42.5°	987.5	1007.9	1042.8	1064.6	1071.9
45°	932.2	952.6	983.1	1006.4	1012.2
47.5°	875.5	894.4	925.0	943.9	949.7
50°	814.4	831.9	861.0	879.9	887.2
52.5°	756.3	772.3	797.0	813.0	817.3
55°	695.2	709.7	730.1	747.5	753.4
57.5°	629.7	645.7	664.6	679.2	683.5
60°	567.2	580.3	596.3	609.4	610.8
62.5°	506.1	511.9	526.5	538.1	539.6
65°	437.8	446.5	461.0	465.4	472.7
67.5°	375.2	381.0	392.7	398.5	404.3
70°	311.2	315.6	327.2	334.5	336.0
72.5°	256.0	257.4	266.1	272.0	273.4
75°	199.2	202.2	209.4	213.8	216.7
77.5°	151.3	154.2	160.0	162.9	162.9
80°	106.2	110.5	116.3	117.8	119.3
82.5°	68.4	74.2	78.5	80.0	77.1
85°	36.4	43.6	43.6	40.7	42.2
87.5°	13.1	16.0	17.5	18.9	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)