

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: P296725

Luminaire Tested: **D3X-WD-45L83050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296725
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-45L83050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4268.0 lumens
Efficiency: N/A
Efficacy: 135.5 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

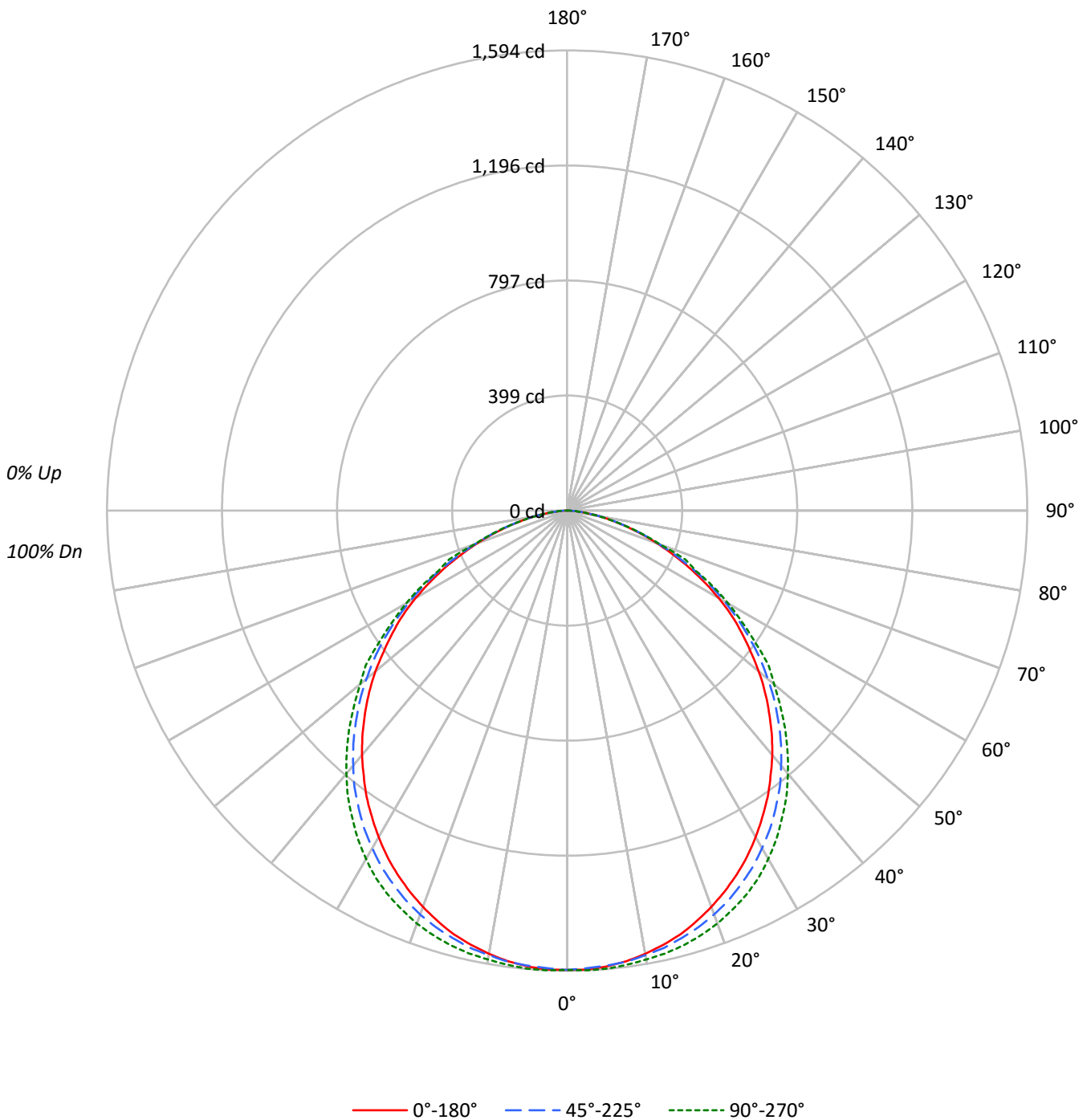
Input Watts (W): 31.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2141	2141	2141
5°	2141	2137	2151
10°	2130	2136	2157
15°	2116	2135	2171
20°	2092	2131	2180
25°	2064	2119	2180
30°	2029	2098	2165
35°	1990	2068	2133
40°	1942	2025	2090
45°	1882	1970	2031
50°	1814	1901	1959
55°	1731	1810	1864
60°	1632	1694	1735
65°	1482	1531	1560
70°	1301	1331	1349
75°	1098	1115	1122
80°	878	890	866
85°	591	614	591



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	3.5
10°-20°	433.6	10.2
20°-30°	657.9	15.4
30°-40°	785.5	18.4
40°-50°	795.2	18.6
50°-60°	687.4	16.1
60°-70°	476.4	11.2
70°-80°	230.5	5.4
80°-90°	50.7	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°	1242.3	29.1
0°-40°	2027.8	47.5
0°-60°	3510.4	82.2
0°-90°	4268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4268.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1591	1591	1591	1591	1591	
5°	1585	1583	1582	1590	1593	150
15°	1519	1522	1533	1551	1559	428
25°	1390	1400	1427	1456	1469	640
35°	1211	1222	1259	1291	1299	757
45°	989	1003	1035	1061	1067	763
55°	738	746	772	804	795	660
65°	466	470	481	488	490	461
75°	211	213	214	213	216	227
85°	38	41	40	38	38	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1591.1	1591.1	1591.1	1591.1	1591.1
2.5°	1591.1	1589.5	1586.5	1591.1	1594.1
5°	1585.0	1583.4	1581.9	1589.5	1592.6
7.5°	1574.2	1574.2	1575.8	1583.4	1586.5
10°	1558.9	1560.5	1563.5	1575.8	1578.8
12.5°	1540.5	1543.6	1551.3	1565.0	1571.2
15°	1519.1	1522.2	1532.9	1551.3	1558.9
17.5°	1491.5	1497.7	1513.0	1534.4	1542.1
20°	1460.9	1468.6	1488.5	1513.0	1522.2
22.5°	1427.2	1434.9	1460.9	1486.9	1496.1
25°	1390.5	1399.7	1427.2	1456.3	1468.6
27.5°	1350.7	1361.4	1392.0	1422.6	1434.9
30°	1306.2	1318.5	1350.7	1382.8	1393.5
32.5°	1258.8	1271.0	1307.8	1338.4	1349.1
35°	1211.3	1222.0	1258.8	1290.9	1298.6
37.5°	1157.7	1170.0	1209.8	1237.3	1248.1
40°	1105.6	1117.9	1153.1	1180.7	1189.9
42.5°	1049.0	1061.2	1096.5	1122.5	1130.1
45°	989.3	1003.0	1035.2	1061.2	1067.4
47.5°	929.5	940.3	973.9	996.9	1001.5
50°	866.7	877.5	908.1	931.1	935.7
52.5°	800.9	817.7	842.2	859.1	879.0
55°	738.1	745.8	771.8	804.0	794.8
57.5°	675.3	679.9	701.4	715.1	718.2
60°	606.4	612.5	629.4	637.0	644.7
62.5°	534.4	539.0	558.9	566.6	569.7
65°	465.5	470.1	480.8	488.5	490.0
67.5°	395.1	399.7	408.9	415.0	442.6
70°	330.8	333.8	338.4	350.7	343.0
72.5°	269.5	271.1	275.6	275.6	277.2
75°	211.3	212.9	214.4	212.9	215.9
77.5°	157.7	160.8	162.3	160.8	159.3
80°	113.3	116.4	114.9	111.8	111.8
82.5°	73.5	75.0	73.5	72.0	72.0
85°	38.3	41.3	39.8	38.3	38.3
87.5°	13.8	15.3	16.8	18.4	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)