

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: P296715

Luminaire Tested: **D3X-WD-36L83050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296715
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-36L83050-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: 3448.0 lumens
Efficiency: N/A
Efficacy: 136.8 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

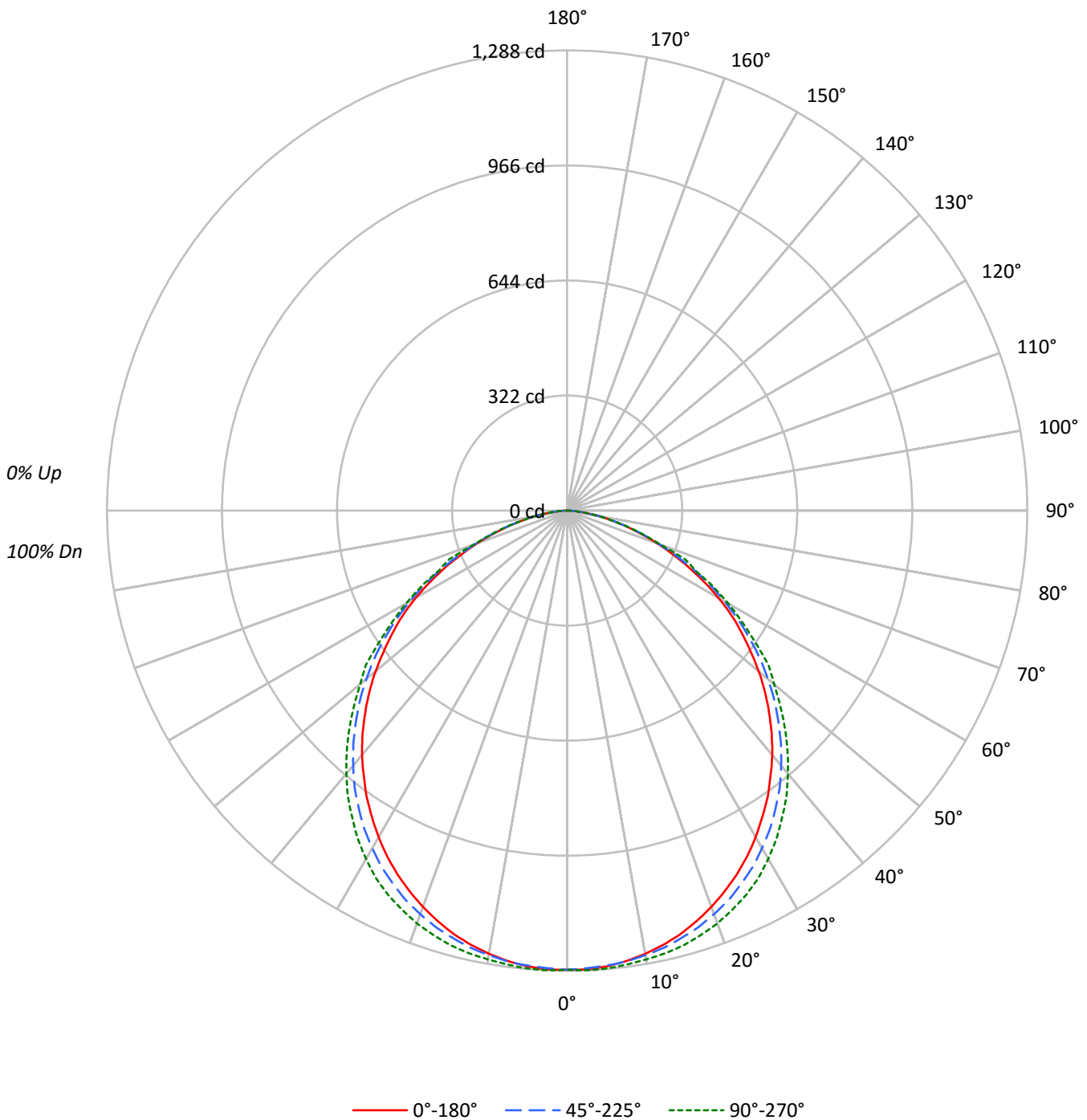
Input Watts (W): 25.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1729	1729	1729
5°	1729	1726	1738
10°	1721	1726	1743
15°	1709	1725	1754
20°	1690	1722	1761
25°	1668	1712	1761
30°	1640	1695	1749
35°	1607	1670	1723
40°	1569	1636	1688
45°	1521	1591	1641
50°	1466	1536	1582
55°	1399	1463	1506
60°	1318	1368	1401
65°	1197	1237	1260
70°	1051	1076	1090
75°	887	900	907
80°	709	719	700
85°	477	497	477



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	3.5
10°-20°	350.3	10.2
20°-30°	531.5	15.4
30°-40°	634.6	18.4
40°-50°	642.4	18.6
50°-60°	555.3	16.1
60°-70°	384.9	11.2
70°-80°	186.2	5.4
80°-90°	40.9	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°	1003.6	29.1
0°-40°	1638.2	47.5
0°-60°	2835.9	82.2
0°-90°	3448.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3448.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1285	1285	1285	1285	1285	
5°	1280	1279	1278	1284	1287	122
15°	1227	1230	1238	1253	1259	346
25°	1123	1131	1153	1176	1186	517
35°	979	987	1017	1043	1049	611
45°	799	810	836	857	862	616
55°	596	602	624	650	642	533
65°	376	380	388	395	396	372
75°	171	172	173	172	174	183
85°	31	33	32	31	31	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1285.4	1285.4	1285.4	1285.4	1285.4
2.5°	1285.4	1284.2	1281.7	1285.4	1287.9
5°	1280.4	1279.2	1278.0	1284.2	1286.6
7.5°	1271.8	1271.8	1273.0	1279.2	1281.7
10°	1259.4	1260.6	1263.1	1273.0	1275.5
12.5°	1244.6	1247.0	1253.2	1264.4	1269.3
15°	1227.2	1229.7	1238.4	1253.2	1259.4
17.5°	1205.0	1209.9	1222.3	1239.6	1245.8
20°	1180.2	1186.4	1202.5	1222.3	1229.7
22.5°	1153.0	1159.2	1180.2	1201.3	1208.7
25°	1123.3	1130.7	1153.0	1176.5	1186.4
27.5°	1091.2	1099.8	1124.6	1149.3	1159.2
30°	1055.3	1065.2	1091.2	1117.1	1125.8
32.5°	1016.9	1026.8	1056.5	1081.3	1089.9
35°	978.6	987.2	1016.9	1042.9	1049.1
37.5°	935.3	945.2	977.3	999.6	1008.3
40°	893.2	903.1	931.6	953.8	961.3
42.5°	847.4	857.3	885.8	906.8	913.0
45°	799.2	810.3	836.3	857.3	862.3
47.5°	750.9	759.6	786.8	805.4	809.1
50°	700.2	708.9	733.6	752.2	755.9
52.5°	647.0	660.6	680.4	694.0	710.1
55°	596.3	602.5	623.5	649.5	642.1
57.5°	545.6	549.3	566.6	577.7	580.2
60°	489.9	494.9	508.5	514.7	520.8
62.5°	431.8	435.5	451.6	457.7	460.2
65°	376.1	379.8	388.5	394.6	395.9
67.5°	319.2	322.9	330.3	335.3	357.5
70°	267.2	269.7	273.4	283.3	277.1
72.5°	217.7	219.0	222.7	222.7	223.9
75°	170.7	172.0	173.2	172.0	174.4
77.5°	127.4	129.9	131.1	129.9	128.7
80°	91.5	94.0	92.8	90.3	90.3
82.5°	59.4	60.6	59.4	58.1	58.1
85°	30.9	33.4	32.2	30.9	30.9
87.5°	11.1	12.4	13.6	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)