

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: P298316

Luminaire Tested: **D3X-WO-31L83050-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-31L83050-LD5-UNV-22-T1-W2A-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3145.0 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

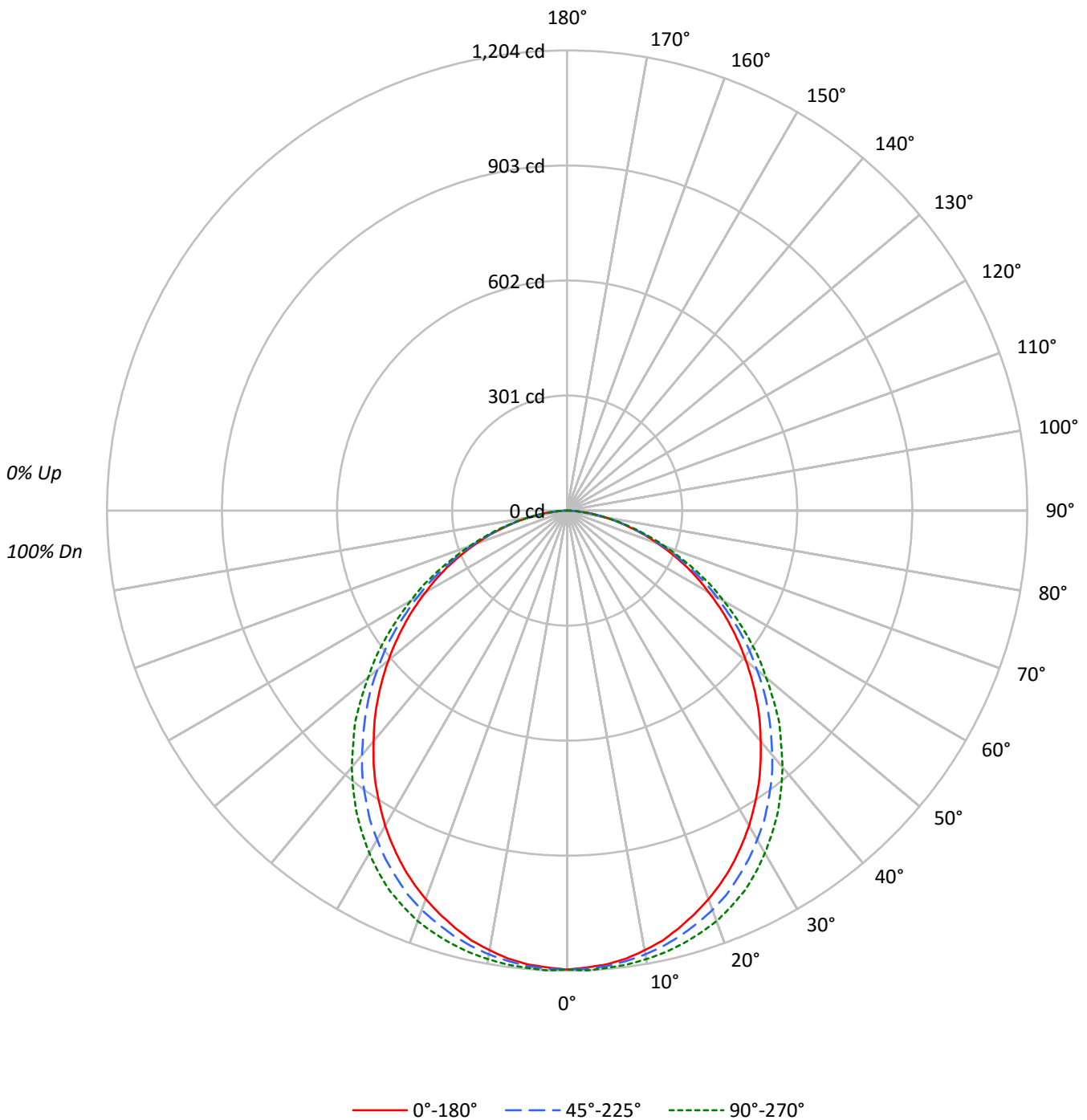
Input Watts (W): 24.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	70	62	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	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3232	3232	3232
5°	3219	3232	3244
10°	3192	3222	3256
15°	3150	3206	3268
20°	3099	3184	3273
25°	3036	3143	3259
30°	2958	3090	3216
35°	2871	3020	3159
40°	2767	2932	3080
45°	2670	2831	2986
50°	2557	2714	2845
55°	2439	2586	2711
60°	2301	2435	2545
65°	2174	2253	2363
70°	1996	2057	2131
75°	1775	1824	1873
80°	1530	1505	1505
85°	1161	1062	966



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	3.6
10°-20°	324.7	10.3
20°-30°	487.6	15.5
30°-40°	573.8	18.2
40°-50°	572.4	18.2
50°-60°	491.2	15.6
60°-70°	351.8	11.2
70°-80°	186.3	5.9
80°-90°	43.6	1.4
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°	926.0	29.4
0°-40°	1499.8	47.7
0°-60°	2563.4	81.5
0°-90°	3145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3145.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1201	1201	1201	1201	1201	
5°	1192	1192	1196	1200	1201	113
15°	1131	1135	1151	1167	1173	319
25°	1022	1032	1058	1085	1098	471
35°	874	885	919	950	962	546
45°	702	712	744	770	784	541
55°	520	528	551	570	578	465
65°	341	343	354	368	371	337
75°	171	171	175	178	180	183
85°	38	36	34	31	31	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1201.0	1201.0	1201.0	1201.0	1201.0
2.5°	1196.3	1196.3	1199.5	1202.6	1204.2
5°	1191.7	1191.7	1196.3	1199.5	1201.0
7.5°	1182.3	1182.3	1188.5	1194.8	1197.9
10°	1168.2	1171.3	1179.1	1188.5	1191.7
12.5°	1152.5	1155.6	1166.6	1179.1	1183.8
15°	1130.6	1135.3	1150.9	1166.6	1172.9
17.5°	1107.1	1113.4	1132.1	1150.9	1158.8
20°	1082.0	1088.3	1111.8	1133.7	1143.1
22.5°	1053.9	1061.7	1088.3	1111.8	1121.2
25°	1022.5	1031.9	1058.5	1085.2	1097.7
27.5°	988.1	999.0	1028.8	1057.0	1067.9
30°	952.1	964.6	994.3	1024.1	1035.1
32.5°	912.9	923.9	959.9	988.1	999.0
35°	873.8	884.7	919.2	950.5	961.5
37.5°	831.5	845.6	880.0	908.2	919.2
40°	787.6	801.7	834.6	867.5	876.9
42.5°	745.4	757.9	789.2	819.0	828.4
45°	701.5	712.5	743.8	770.4	784.5
47.5°	656.1	667.1	698.4	723.4	731.3
50°	610.7	621.7	648.3	670.2	679.6
52.5°	565.3	576.3	601.3	621.7	631.1
55°	519.9	527.7	551.2	570.0	577.8
57.5°	474.5	480.7	499.5	519.9	524.6
60°	427.5	435.3	452.5	466.6	472.9
62.5°	385.2	388.3	404.0	416.5	424.4
65°	341.4	342.9	353.9	368.0	371.1
67.5°	296.0	297.5	308.5	316.3	319.4
70°	253.7	253.7	261.5	267.8	270.9
72.5°	213.0	211.4	216.1	222.4	225.5
75°	170.7	170.7	175.4	178.5	180.1
77.5°	134.7	131.5	134.7	137.8	137.8
80°	98.7	97.1	97.1	98.7	97.1
82.5°	67.3	65.8	67.3	64.2	62.6
85°	37.6	36.0	34.4	31.3	31.3
87.5°	12.5	11.0	11.0	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)