

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: P298151

Luminaire Tested: **D3X-WG-31L83050-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-31L83050-LD5-UNV-22-T1-W2A-5000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3128.0 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

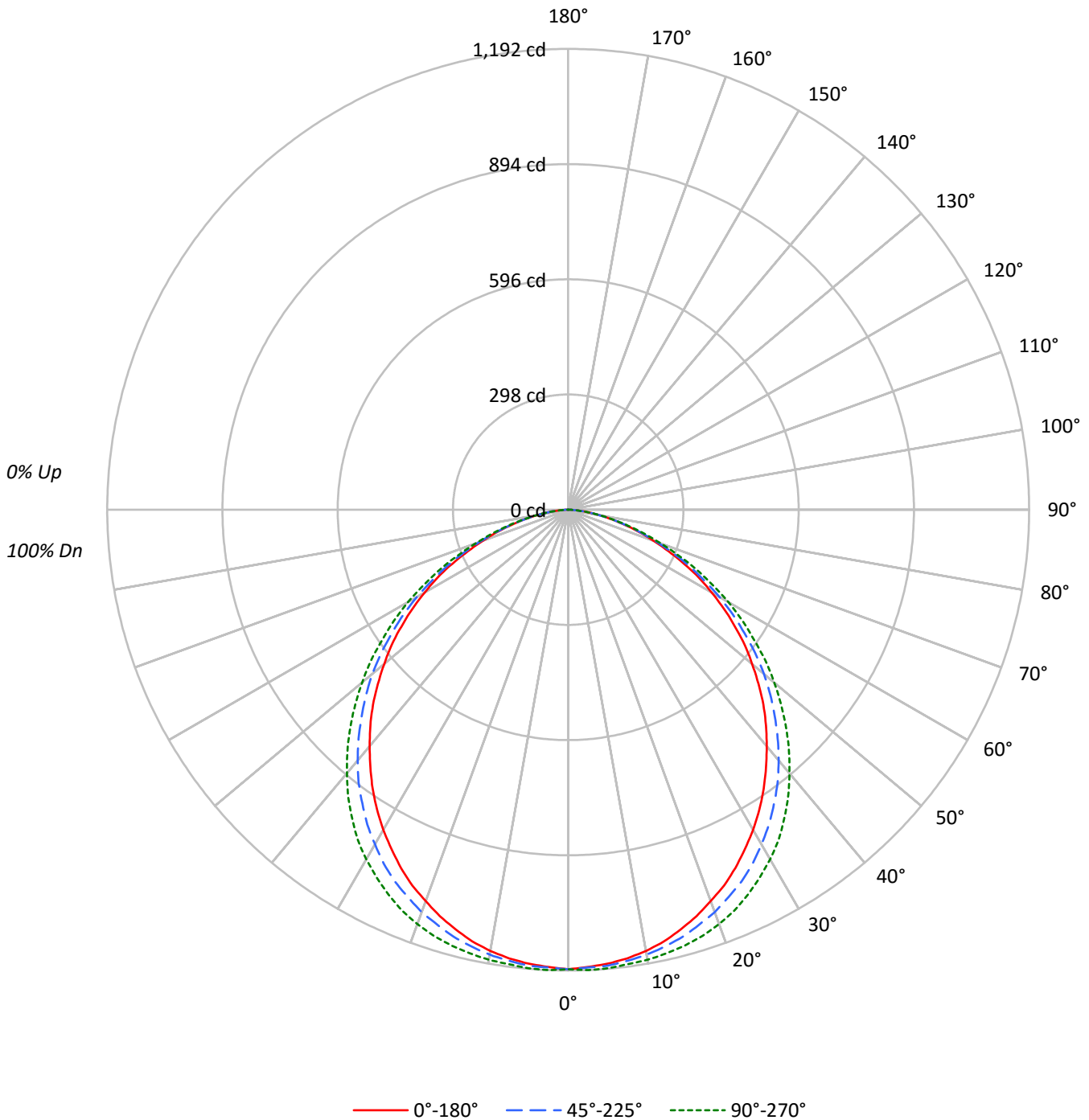
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3199	3199	3199
5°	3184	3197	3216
10°	3166	3194	3230
15°	3131	3187	3251
20°	3086	3171	3266
25°	3037	3150	3263
30°	2971	3105	3245
35°	2896	3049	3201
40°	2805	2974	3126
45°	2717	2875	3033
50°	2599	2766	2912
55°	2469	2609	2750
60°	2305	2430	2573
65°	2104	2199	2325
70°	1842	1921	1998
75°	1571	1605	1674
80°	1261	1286	1313
85°	923	871	821



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	3.6
10°-20°	322.9	10.3
20°-30°	488.2	15.6
30°-40°	579.9	18.5
40°-50°	582.2	18.6
50°-60°	497.3	15.9
60°-70°	342.6	11.0
70°-80°	166.1	5.3
80°-90°	36.4	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°	923.7	29.5
0°-40°	1503.5	48.1
0°-60°	2582.9	82.6
0°-90°	3128.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3128.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1189	1189	1189	1189	1189	
5°	1179	1179	1184	1187	1190	112
15°	1124	1129	1144	1159	1167	317
25°	1023	1031	1061	1089	1099	471
35°	882	895	928	963	974	551
45°	714	724	755	787	797	550
55°	526	535	556	579	586	470
65°	330	330	345	360	365	327
75°	151	148	154	158	161	162
85°	30	30	28	27	27	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1188.7	1188.7	1188.7	1188.7	1188.7
2.5°	1183.7	1183.7	1185.4	1190.4	1192.0
5°	1178.8	1178.8	1183.7	1187.1	1190.4
7.5°	1170.4	1172.1	1177.1	1183.7	1185.4
10°	1158.8	1160.5	1168.8	1177.1	1182.1
12.5°	1143.9	1147.2	1157.2	1170.4	1175.4
15°	1124.0	1128.9	1143.9	1158.8	1167.1
17.5°	1102.4	1109.0	1125.6	1147.2	1155.5
20°	1077.5	1085.8	1107.4	1130.6	1140.6
22.5°	1052.6	1059.2	1084.1	1110.7	1122.3
25°	1022.7	1031.0	1060.9	1089.1	1099.1
27.5°	989.5	1001.1	1032.7	1062.5	1072.5
30°	956.3	966.2	999.4	1032.7	1044.3
32.5°	919.8	929.7	966.2	999.4	1012.7
35°	881.6	894.9	928.1	962.9	974.5
37.5°	840.1	855.0	889.9	919.8	934.7
40°	798.6	811.8	846.7	878.3	889.9
42.5°	757.1	768.7	801.9	835.1	845.0
45°	713.9	723.9	755.4	786.9	796.9
47.5°	667.4	679.0	708.9	735.5	747.1
50°	620.9	632.5	660.8	685.7	695.6
52.5°	576.1	582.7	609.3	632.5	644.2
55°	526.3	534.6	556.2	579.4	586.1
57.5°	478.1	483.1	504.7	524.6	534.6
60°	428.3	431.7	451.6	466.5	478.1
62.5°	381.8	381.8	396.8	413.4	420.0
65°	330.4	330.4	345.3	360.3	365.2
67.5°	280.6	283.9	293.9	305.5	308.8
70°	234.1	234.1	244.1	252.4	254.0
72.5°	192.6	190.9	195.9	202.5	205.9
75°	151.1	147.8	154.4	157.7	161.0
77.5°	114.6	112.9	116.2	119.5	119.5
80°	81.4	79.7	83.0	83.0	84.7
82.5°	53.1	54.8	54.8	53.1	51.5
85°	29.9	29.9	28.2	26.6	26.6
87.5°	10.0	10.0	10.0	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)