

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: P298190

Luminaire Tested: **D3X-WG-31L82765-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298190
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-31L82765-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: 3038.0 lumens
Efficiency: N/A
Efficacy: 121.5 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

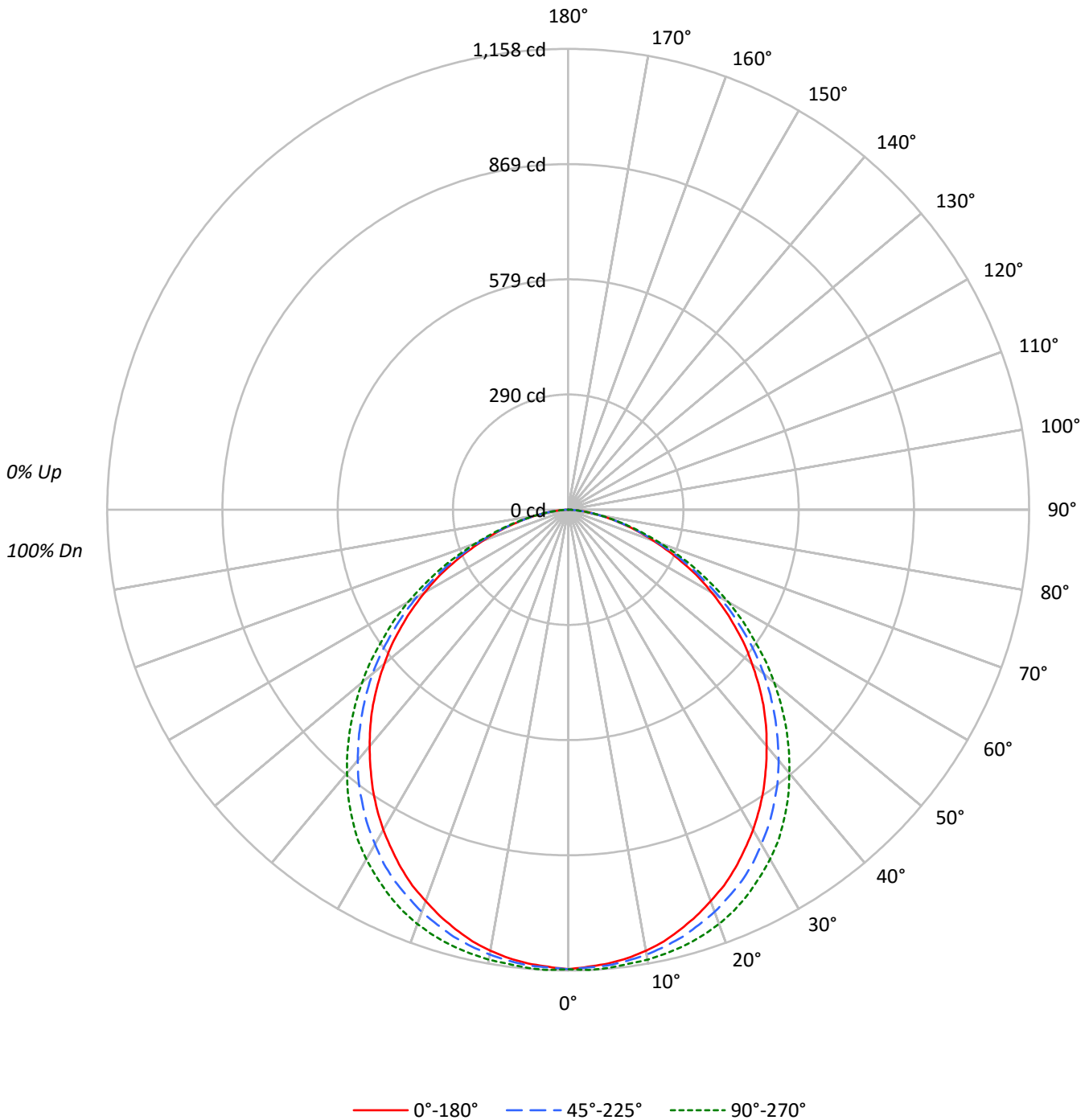
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3107	3107	3107
5°	3092	3106	3123
10°	3075	3102	3137
15°	3041	3095	3158
20°	2997	3080	3172
25°	2949	3059	3169
30°	2886	3016	3151
35°	2813	2961	3109
40°	2725	2889	3036
45°	2639	2792	2946
50°	2525	2687	2828
55°	2398	2534	2670
60°	2239	2361	2499
65°	2043	2136	2259
70°	1789	1865	1941
75°	1525	1560	1626
80°	1224	1249	1274
85°	895	846	797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	3.6
10°-20°	313.6	10.3
20°-30°	474.1	15.6
30°-40°	563.2	18.5
40°-50°	565.4	18.6
50°-60°	482.9	15.9
60°-70°	332.7	11.0
70°-80°	161.3	5.3
80°-90°	35.3	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°	897.1	29.5
0°-40°	1460.3	48.1
0°-60°	2508.6	82.6
0°-90°	3038.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3038.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1154	1154	1154	1154	1154	
5°	1145	1145	1150	1153	1156	109
15°	1092	1096	1111	1126	1134	308
25°	993	1001	1030	1058	1067	457
35°	856	869	901	935	946	535
45°	693	703	734	764	774	534
55°	511	519	540	563	569	457
65°	321	321	335	350	355	318
75°	147	144	150	153	156	158
85°	29	29	27	26	26	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1154.5	1154.5	1154.5	1154.5	1154.5
2.5°	1149.7	1149.7	1151.3	1156.1	1157.7
5°	1144.8	1144.8	1149.7	1152.9	1156.1
7.5°	1136.8	1138.4	1143.2	1149.7	1151.3
10°	1125.5	1127.1	1135.2	1143.2	1148.1
12.5°	1111.0	1114.2	1123.9	1136.8	1141.6
15°	1091.6	1096.5	1111.0	1125.5	1133.5
17.5°	1070.7	1077.1	1093.2	1114.2	1122.3
20°	1046.5	1054.5	1075.5	1098.1	1107.7
22.5°	1022.3	1028.7	1052.9	1078.7	1090.0
25°	993.3	1001.3	1030.4	1057.8	1067.4
27.5°	961.0	972.3	1002.9	1032.0	1041.6
30°	928.8	938.4	970.7	1002.9	1014.2
32.5°	893.3	903.0	938.4	970.7	983.6
35°	856.2	869.1	901.4	935.2	946.5
37.5°	815.9	830.4	864.3	893.3	907.8
40°	775.6	788.5	822.3	853.0	864.3
42.5°	735.3	746.6	778.8	811.1	820.7
45°	693.4	703.0	733.7	764.3	774.0
47.5°	648.2	659.5	688.5	714.3	725.6
50°	603.1	614.3	641.8	665.9	675.6
52.5°	559.5	566.0	591.8	614.3	625.6
55°	511.1	519.2	540.2	562.7	569.2
57.5°	464.4	469.2	490.2	509.5	519.2
60°	416.0	419.2	438.6	453.1	464.4
62.5°	370.9	370.9	385.4	401.5	407.9
65°	320.9	320.9	335.4	349.9	354.7
67.5°	272.5	275.7	285.4	296.7	299.9
70°	227.4	227.4	237.0	245.1	246.7
72.5°	187.0	185.4	190.3	196.7	199.9
75°	146.7	143.5	150.0	153.2	156.4
77.5°	111.3	109.6	112.9	116.1	116.1
80°	79.0	77.4	80.6	80.6	82.2
82.5°	51.6	53.2	53.2	51.6	50.0
85°	29.0	29.0	27.4	25.8	25.8
87.5°	9.7	9.7	9.7	11.3	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)