

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: P298274

Luminaire Tested: **D3X-WG-31L92765-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298274
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-31L92765-LD5-UNV-22-T1-W2A-5000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2728.0 lumens
Efficiency: N/A
Efficacy: 109.1 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

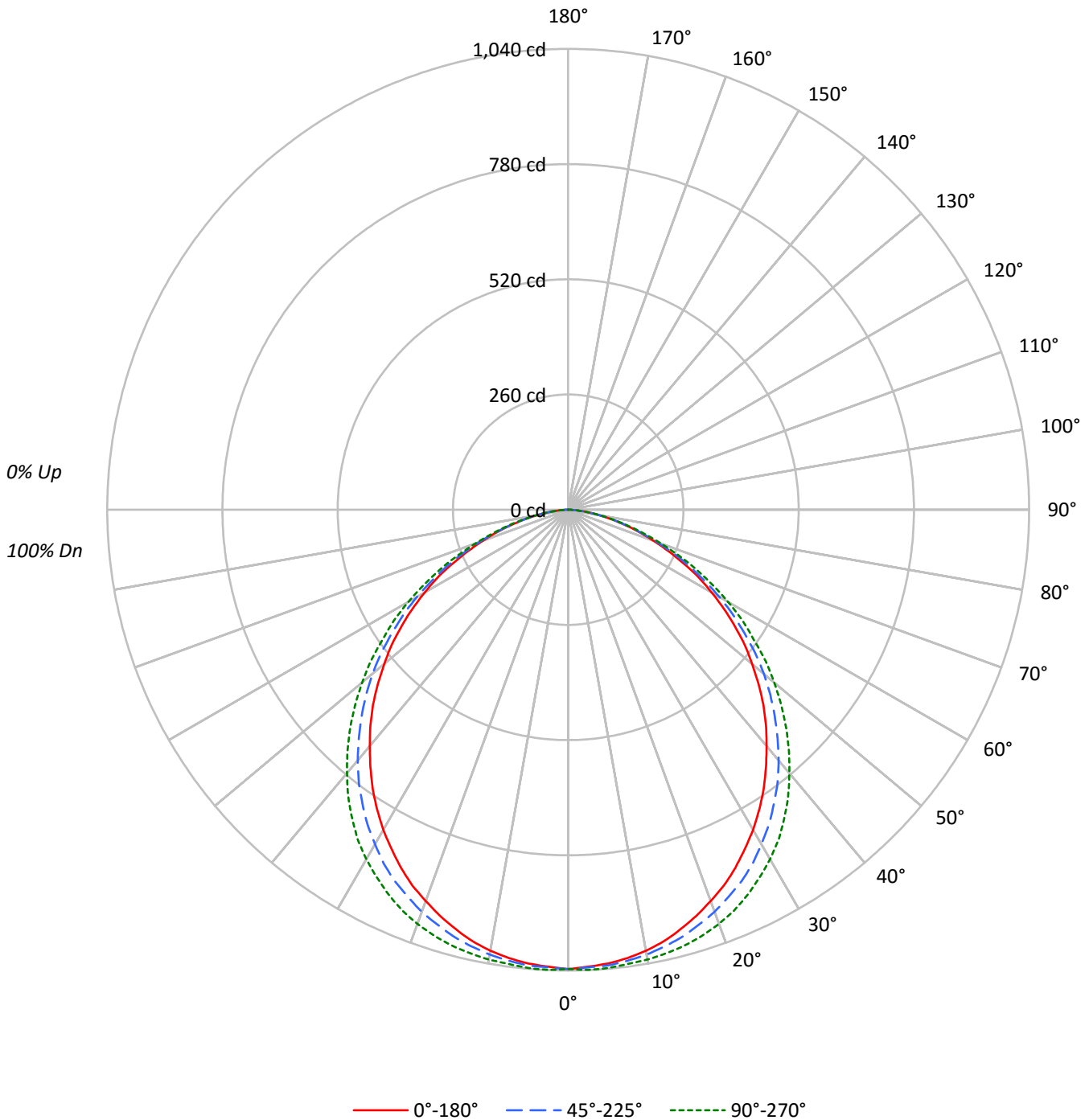
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2790	2790	2790
5°	2777	2789	2804
10°	2761	2785	2817
15°	2731	2779	2836
20°	2691	2766	2849
25°	2648	2747	2846
30°	2591	2708	2830
35°	2526	2659	2792
40°	2446	2594	2726
45°	2369	2507	2645
50°	2267	2413	2540
55°	2153	2275	2398
60°	2011	2119	2244
65°	1834	1918	2028
70°	1607	1674	1743
75°	1370	1400	1460
80°	1099	1122	1144
85°	806	760	716



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.1	3.6
10°-20°	281.6	10.3
20°-30°	425.8	15.6
30°-40°	505.7	18.5
40°-50°	507.7	18.6
50°-60°	433.7	15.9
60°-70°	298.8	11.0
70°-80°	144.9	5.3
80°-90°	31.7	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°	805.5	29.5
0°-40°	1311.3	48.1
0°-60°	2252.6	82.6
0°-90°	2728.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2728.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1037	1037	1037	1037	1037	
5°	1028	1028	1032	1035	1038	98
15°	980	985	998	1011	1018	276
25°	892	899	925	950	958	410
35°	769	780	809	840	850	480
45°	623	631	659	686	695	479
55°	459	466	485	505	511	410
65°	288	288	301	314	318	285
75°	132	129	135	138	140	142
85°	26	26	25	23	23	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1036.7	1036.7	1036.7	1036.7	1036.7
2.5°	1032.4	1032.4	1033.8	1038.2	1039.6
5°	1028.0	1028.0	1032.4	1035.3	1038.2
7.5°	1020.8	1022.2	1026.6	1032.4	1033.8
10°	1010.6	1012.1	1019.3	1026.6	1030.9
12.5°	997.6	1000.5	1009.2	1020.8	1025.1
15°	980.2	984.6	997.6	1010.6	1017.9
17.5°	961.4	967.2	981.7	1000.5	1007.7
20°	939.7	946.9	965.8	986.0	994.7
22.5°	918.0	923.8	945.5	968.7	978.8
25°	891.9	899.2	925.2	949.8	958.5
27.5°	863.0	873.1	900.6	926.7	935.3
30°	834.0	842.7	871.6	900.6	910.7
32.5°	802.1	810.8	842.7	871.6	883.2
35°	768.8	780.4	809.4	839.8	849.9
37.5°	732.6	745.7	776.1	802.1	815.2
40°	696.4	708.0	738.4	765.9	776.1
42.5°	660.2	670.4	699.3	728.3	737.0
45°	622.6	631.3	658.8	686.3	695.0
47.5°	582.1	592.2	618.3	641.4	651.6
50°	541.5	551.7	576.3	598.0	606.7
52.5°	502.4	508.2	531.4	551.7	561.8
55°	459.0	466.2	485.0	505.3	511.1
57.5°	417.0	421.3	440.2	457.5	466.2
60°	373.6	376.5	393.8	406.9	417.0
62.5°	333.0	333.0	346.1	360.5	366.3
65°	288.1	288.1	301.2	314.2	318.5
67.5°	244.7	247.6	256.3	266.4	269.3
70°	204.2	204.2	212.8	220.1	221.5
72.5°	168.0	166.5	170.9	176.6	179.5
75°	131.8	128.9	134.7	137.6	140.4
77.5°	99.9	98.5	101.4	104.2	104.2
80°	70.9	69.5	72.4	72.4	73.8
82.5°	46.3	47.8	47.8	46.3	44.9
85°	26.1	26.1	24.6	23.2	23.2
87.5°	8.7	8.7	8.7	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)