

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: P298148

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298148
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-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2951.0 lumens
Efficiency: N/A
Efficacy: 120.4 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

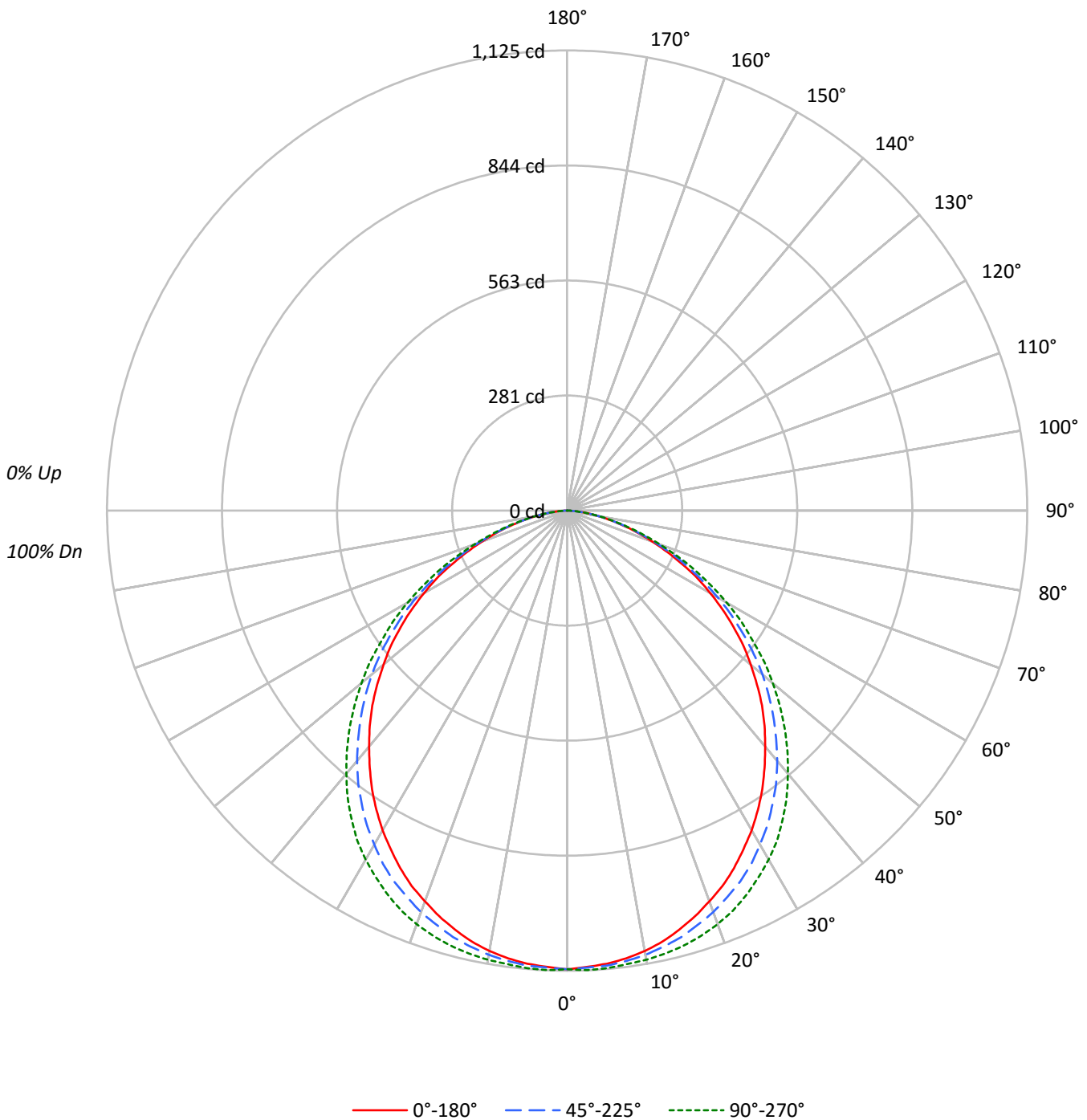
Input Watts (W): 24.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3018	3018	3018
5°	3004	3016	3034
10°	2987	3013	3047
15°	2954	3007	3068
20°	2911	2992	3081
25°	2865	2972	3079
30°	2803	2930	3061
35°	2732	2876	3020
40°	2647	2806	2949
45°	2563	2712	2861
50°	2452	2610	2748
55°	2329	2462	2594
60°	2175	2293	2428
65°	1985	2074	2194
70°	1737	1811	1885
75°	1482	1515	1579
80°	1189	1213	1238
85°	871	821	775



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	3.6
10°-20°	304.7	10.3
20°-30°	460.6	15.6
30°-40°	547.1	18.5
40°-50°	549.2	18.6
50°-60°	469.1	15.9
60°-70°	323.2	11.0
70°-80°	156.7	5.3
80°-90°	34.3	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°	871.4	29.5
0°-40°	1418.4	48.1
0°-60°	2436.8	82.6
0°-90°	2951.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2951.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1121	1121	1121	1121	1121	
5°	1112	1112	1117	1120	1123	106
15°	1060	1065	1079	1093	1101	299
25°	965	973	1001	1028	1037	444
35°	832	844	876	908	919	520
45°	674	683	713	742	752	518
55°	496	504	525	547	553	444
65°	312	312	326	340	345	309
75°	142	139	146	149	152	153
85°	28	28	27	25	25	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1121.4	1121.4	1121.4	1121.4	1121.4
2.5°	1116.7	1116.7	1118.3	1123.0	1124.6
5°	1112.1	1112.1	1116.7	1119.9	1123.0
7.5°	1104.2	1105.8	1110.5	1116.7	1118.3
10°	1093.3	1094.8	1102.7	1110.5	1115.2
12.5°	1079.2	1082.3	1091.7	1104.2	1108.9
15°	1060.4	1065.1	1079.2	1093.3	1101.1
17.5°	1040.0	1046.3	1061.9	1082.3	1090.1
20°	1016.5	1024.3	1044.7	1066.6	1076.0
22.5°	993.0	999.3	1022.8	1047.8	1058.8
25°	964.8	972.7	1000.8	1027.5	1036.9
27.5°	933.5	944.5	974.2	1002.4	1011.8
30°	902.2	911.6	942.9	974.2	985.2
32.5°	867.7	877.1	911.6	942.9	955.4
35°	831.7	844.2	875.5	908.4	919.4
37.5°	792.5	806.6	839.5	867.7	881.8
40°	753.4	765.9	798.8	828.6	839.5
42.5°	714.2	725.2	756.5	787.8	797.2
45°	673.5	682.9	712.7	742.4	751.8
47.5°	629.6	640.6	668.8	693.9	704.8
50°	585.8	596.7	623.4	646.9	656.3
52.5°	543.5	549.8	574.8	596.7	607.7
55°	496.5	504.3	524.7	546.6	552.9
57.5°	451.1	455.8	476.1	494.9	504.3
60°	404.1	407.2	426.0	440.1	451.1
62.5°	360.2	360.2	374.3	390.0	396.3
65°	311.7	311.7	325.8	339.9	344.6
67.5°	264.7	267.8	277.2	288.2	291.3
70°	220.8	220.8	230.2	238.1	239.6
72.5°	181.7	180.1	184.8	191.1	194.2
75°	142.5	139.4	145.7	148.8	151.9
77.5°	108.1	106.5	109.6	112.8	112.8
80°	76.7	75.2	78.3	78.3	79.9
82.5°	50.1	51.7	51.7	50.1	48.6
85°	28.2	28.2	26.6	25.1	25.1
87.5°	9.4	9.4	9.4	11.0	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)