

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: P298066

Luminaire Tested: **D3X-WD-31L93050-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-31L93050-LD5-UNV-22-T1-W2A-4500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2718.0 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

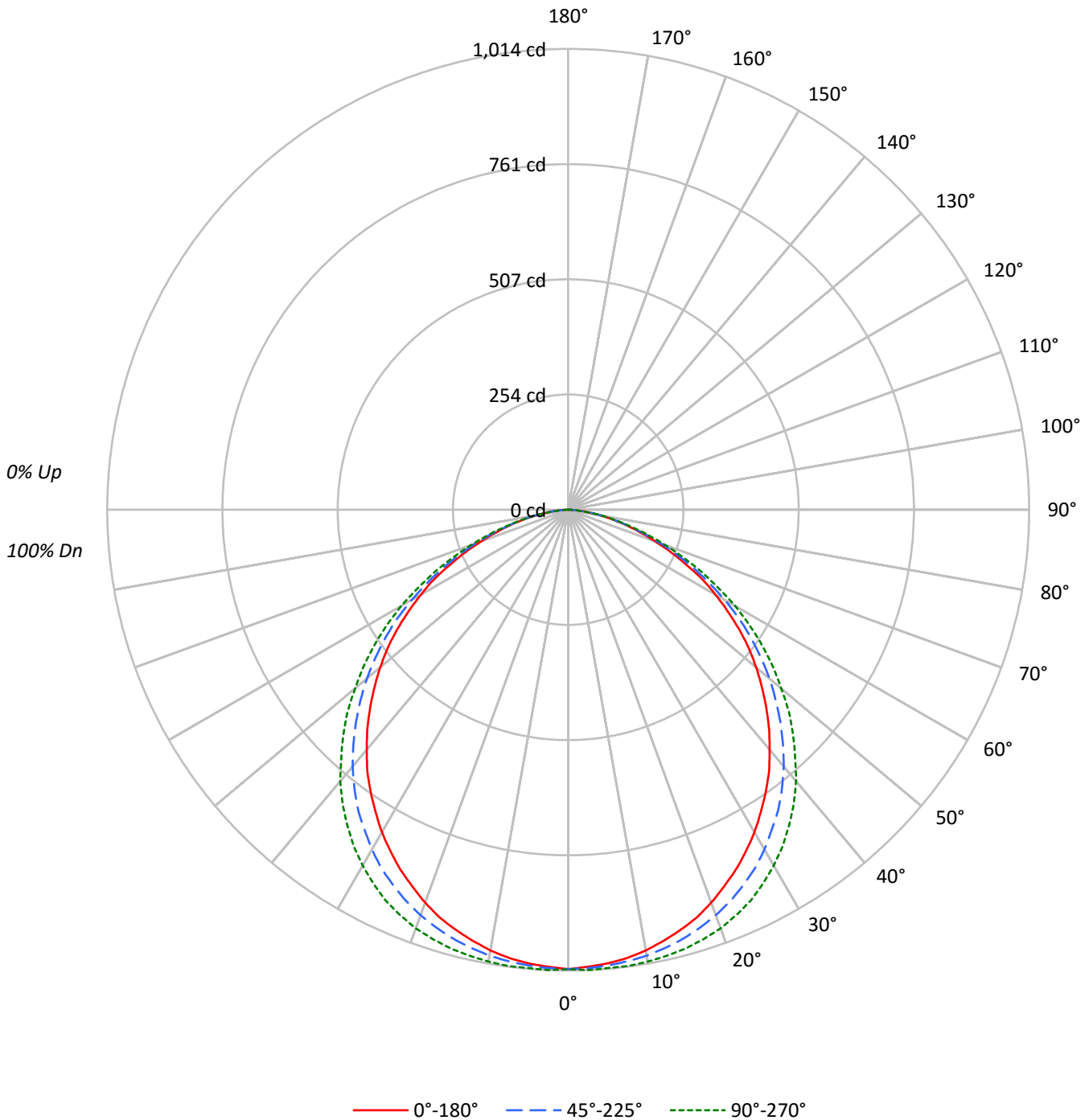
Input Watts (W): 25.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2720	2720	2720
5°	2707	2719	2735
10°	2690	2722	2758
15°	2666	2723	2784
20°	2635	2719	2807
25°	2593	2706	2819
30°	2546	2682	2809
35°	2489	2648	2783
40°	2421	2590	2739
45°	2344	2511	2661
50°	2260	2419	2560
55°	2155	2299	2443
60°	2016	2141	2284
65°	1826	1938	2059
70°	1611	1692	1784
75°	1384	1415	1475
80°	1111	1134	1156
85°	812	722	722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	3.5
10°-20°	276.0	10.2
20°-30°	419.8	15.4
30°-40°	502.2	18.5
40°-50°	507.7	18.7
50°-60°	436.9	16.1
60°-70°	301.7	11.1
70°-80°	146.3	5.4
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°	791.5	29.1
0°-40°	1293.7	47.6
0°-60°	2238.4	82.4
0°-90°	2718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2718.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1011	1011	1011	1011	1011	
5°	1002	1004	1006	1011	1012	95
15°	957	963	977	992	999	270
25°	873	884	912	939	950	402
35°	758	771	806	835	847	474
45°	616	628	660	688	699	475
55°	459	467	490	512	521	410
65°	287	291	304	318	323	285
75°	133	130	136	140	142	141
85°	26	26	23	23	23	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1010.9	1010.9	1010.9	1010.9	1010.9
2.5°	1006.5	1006.5	1009.5	1012.4	1013.9
5°	1002.2	1003.6	1006.5	1010.9	1012.4
7.5°	994.8	996.3	1002.2	1009.5	1012.4
10°	984.6	987.5	996.3	1005.1	1009.5
12.5°	971.4	977.3	987.5	999.2	1005.1
15°	956.8	962.7	977.3	991.9	999.2
17.5°	940.7	946.6	964.1	983.1	990.5
20°	920.2	929.0	949.5	971.4	980.2
22.5°	896.8	908.5	931.9	955.3	965.6
25°	873.4	883.7	911.5	939.2	949.5
27.5°	847.1	858.8	889.5	917.3	927.5
30°	819.3	831.0	863.2	893.9	904.1
32.5°	788.6	803.2	833.9	866.1	877.8
35°	757.8	771.0	806.1	835.4	847.1
37.5°	725.7	737.4	772.5	803.2	814.9
40°	689.1	702.2	737.4	768.1	779.8
42.5°	654.0	667.1	699.3	728.6	738.8
45°	615.9	627.6	659.8	687.6	699.3
47.5°	577.9	591.1	618.9	646.6	658.4
50°	539.8	550.1	577.9	604.2	611.5
52.5°	500.3	509.1	534.0	557.4	567.6
55°	459.4	466.7	490.1	512.1	520.8
57.5°	415.5	424.3	446.2	462.3	472.6
60°	374.5	378.9	397.9	414.0	424.3
62.5°	333.6	335.0	349.7	365.8	371.6
65°	286.7	291.1	304.3	317.5	323.3
67.5°	244.3	248.7	259.0	269.2	273.6
70°	204.8	204.8	215.1	222.4	226.8
72.5°	165.3	166.8	174.1	178.5	182.9
75°	133.1	130.2	136.1	140.4	141.9
77.5°	99.5	98.0	102.4	103.9	106.8
80°	71.7	71.7	73.2	74.6	74.6
82.5°	46.8	46.8	48.3	45.4	43.9
85°	26.3	26.3	23.4	23.4	23.4
87.5°	8.8	8.8	8.8	10.2	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)