

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: P298402

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-31L93050-LD5-UNV-22-T1-W2A-4500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2937.0 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

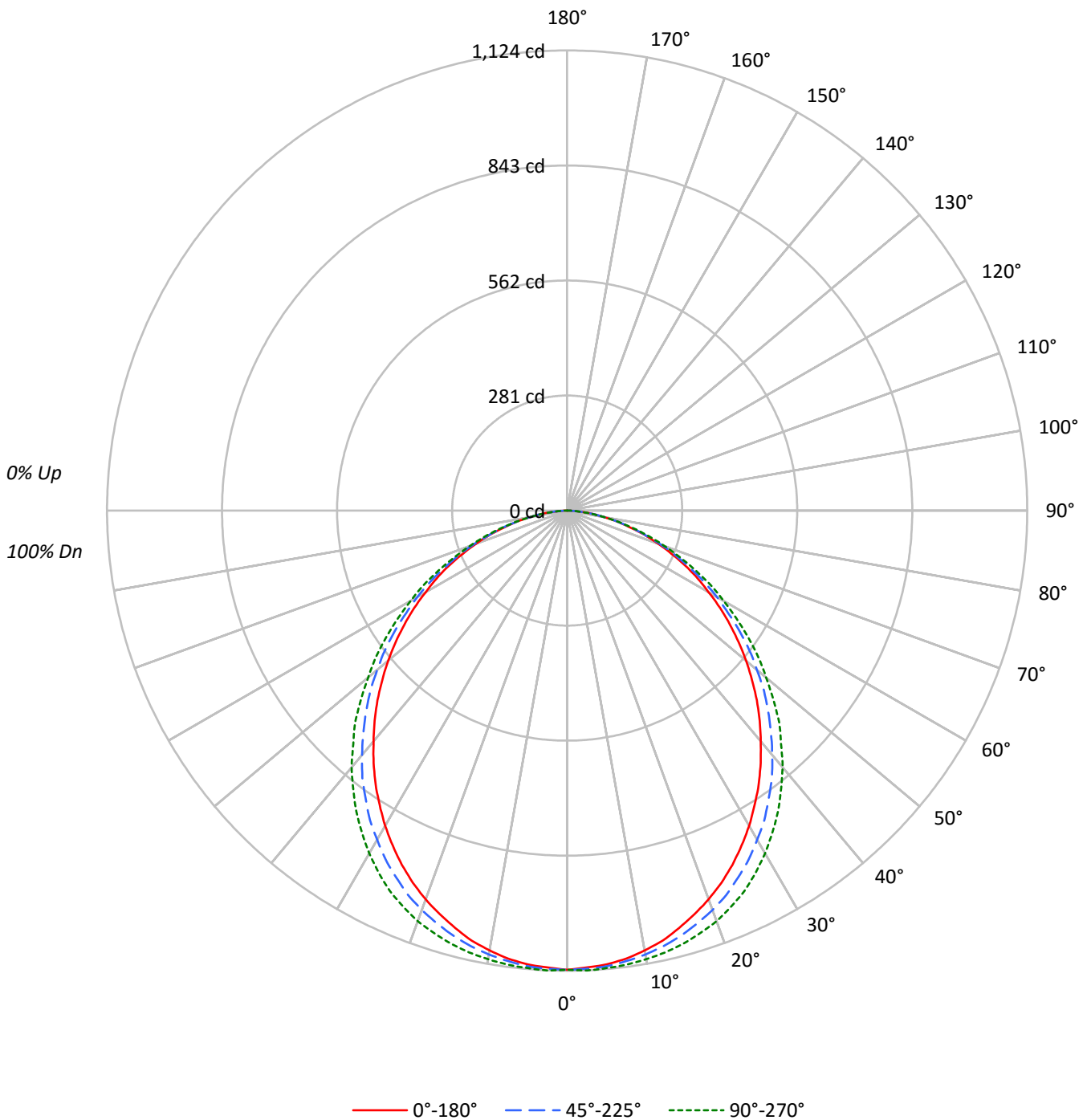
Input Watts (W): 25.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	70	62	56	68	61	56	66	60	55	64	58	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	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3018	3018	3018
5°	3006	3018	3030
10°	2981	3009	3041
15°	2941	2994	3051
20°	2894	2973	3057
25°	2835	2935	3044
30°	2763	2885	3003
35°	2681	2820	2950
40°	2584	2738	2877
45°	2493	2643	2788
50°	2388	2534	2657
55°	2278	2415	2532
60°	2148	2274	2377
65°	2030	2104	2207
70°	1864	1921	1991
75°	1657	1703	1749
80°	1427	1406	1406
85°	1084	994	902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	3.6
10°-20°	303.3	10.3
20°-30°	455.3	15.5
30°-40°	535.9	18.2
40°-50°	534.5	18.2
50°-60°	458.7	15.6
60°-70°	328.5	11.2
70°-80°	174.0	5.9
80°-90°	40.7	1.4
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°	864.7	29.4
0°-40°	1400.6	47.7
0°-60°	2393.8	81.5
0°-90°	2937.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2937.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1122	1122	1122	1122	1122	
5°	1113	1113	1117	1120	1122	106
15°	1056	1060	1075	1089	1095	298
25°	955	964	988	1013	1025	439
35°	816	826	858	888	898	510
45°	655	665	695	720	733	505
55°	486	493	515	532	540	434
65°	319	320	330	344	347	315
75°	159	159	164	167	168	171
85°	35	34	32	29	29	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1121.6	1121.6	1121.6	1121.6	<i>1121.6</i>
2.5°	<i>1117.2</i>	<i>1117.2</i>	<i>1120.2</i>	<i>1123.1</i>	<i>1124.5</i>
5°	1112.8	1112.8	1117.2	1120.2	<i>1121.6</i>
7.5°	1104.1	1104.1	1109.9	1115.8	<i>1118.7</i>
10°	1090.9	1093.8	1101.1	1109.9	<i>1112.8</i>
12.5°	1076.3	1079.2	1089.4	1101.1	<i>1105.5</i>
15°	1055.8	1060.2	1074.8	1089.4	<i>1095.3</i>
17.5°	1033.9	1039.7	1057.3	1074.8	<i>1082.1</i>
20°	1010.5	1016.3	1038.3	1058.7	<i>1067.5</i>
22.5°	984.2	991.5	1016.3	1038.3	<i>1047.0</i>
25°	954.9	963.7	988.5	1013.4	<i>1025.1</i>
27.5°	922.7	933.0	960.8	987.1	<i>997.3</i>
30°	889.1	900.8	928.6	956.4	<i>966.6</i>
32.5°	852.5	862.8	896.4	922.7	<i>933.0</i>
35°	816.0	826.2	858.4	887.6	<i>897.9</i>
37.5°	776.5	789.7	821.8	848.2	<i>858.4</i>
40°	735.6	748.7	779.4	810.1	<i>818.9</i>
42.5°	696.1	707.8	737.0	764.8	<i>773.6</i>
45°	655.1	665.4	694.6	719.5	<i>732.6</i>
47.5°	612.7	623.0	652.2	675.6	<i>682.9</i>
50°	570.3	580.5	605.4	625.9	<i>634.7</i>
52.5°	527.9	538.1	561.5	580.5	<i>589.3</i>
55°	485.5	492.8	514.7	532.3	<i>539.6</i>
57.5°	443.1	448.9	466.5	485.5	<i>489.9</i>
60°	399.2	406.5	422.6	435.8	<i>441.6</i>
62.5°	359.7	362.7	377.3	389.0	<i>396.3</i>
65°	318.8	320.3	330.5	343.6	<i>346.6</i>
67.5°	276.4	277.8	288.1	295.4	<i>298.3</i>
70°	236.9	236.9	244.2	250.1	<i>253.0</i>
72.5°	198.9	197.4	201.8	207.7	<i>210.6</i>
75°	159.4	159.4	163.8	166.7	<i>168.2</i>
77.5°	125.8	122.8	125.8	128.7	<i>128.7</i>
80°	92.1	90.7	90.7	92.1	<i>90.7</i>
82.5°	62.9	61.4	62.9	60.0	<i>58.5</i>
85°	35.1	33.6	32.2	29.2	<i>29.2</i>
87.5°	11.7	10.2	10.2	11.7	<i>11.7</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)