

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: P297594

Luminaire Tested: **D3X-WD-31L82765-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-31L82765-LD5-UNV-14-T1-W2A-3500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2894.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

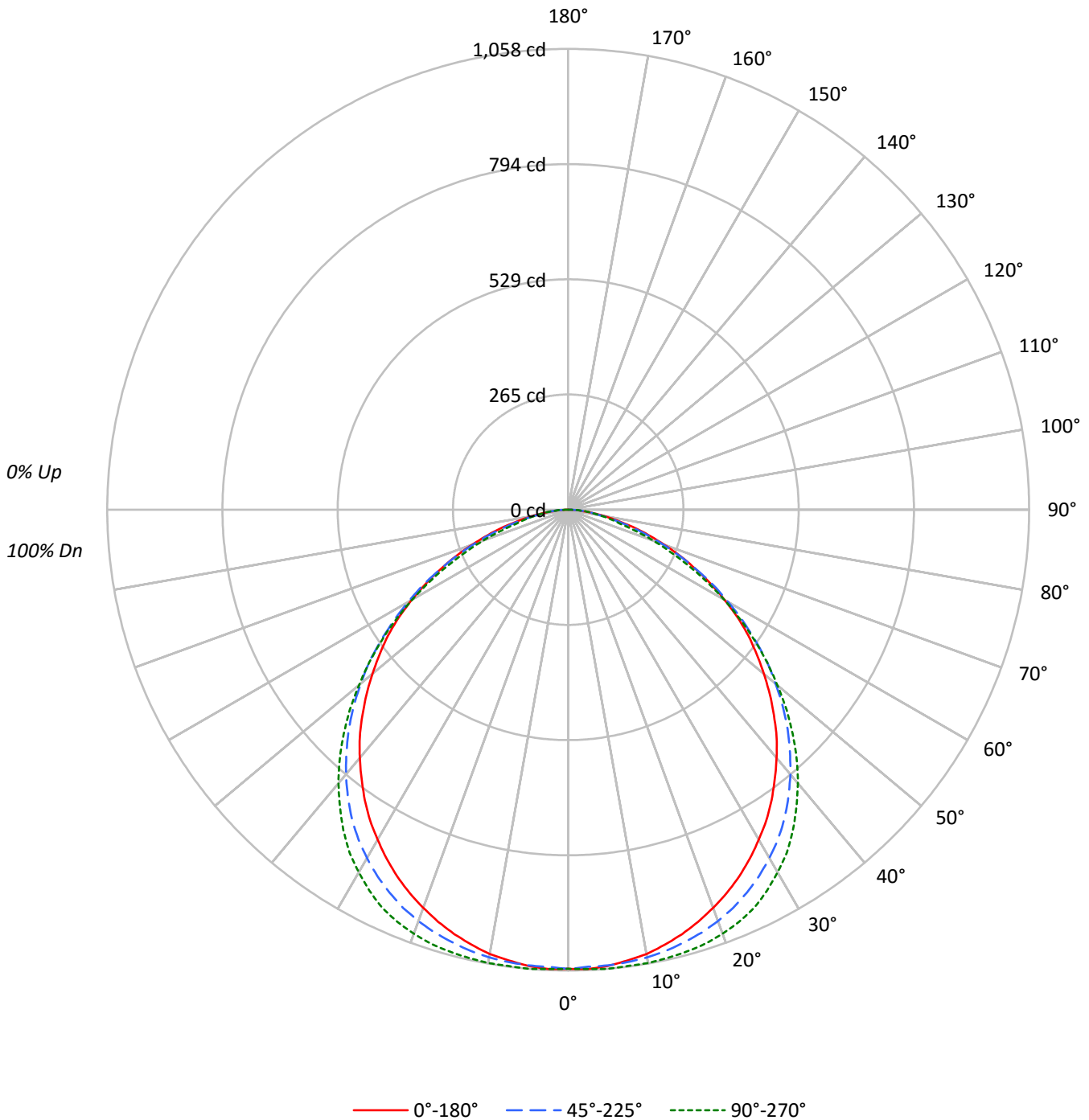
Input Watts (W): 28.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	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	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2837	2837	2837
5°	2840	2837	2858
10°	2831	2852	2887
15°	2811	2865	2926
20°	2786	2878	2967
25°	2758	2881	2996
30°	2718	2870	2986
35°	2673	2843	2954
40°	2614	2786	2882
45°	2542	2709	2773
50°	2455	2601	2623
55°	2370	2461	2449
60°	2232	2280	2225
65°	2057	2064	1950
70°	1840	1799	1637
75°	1598	1491	1262
80°	1282	1161	1161
85°	917	1078	1118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	3.5
10°-20°	291.0	10.1
20°-30°	446.8	15.4
30°-40°	538.1	18.6
40°-50°	543.8	18.8
50°-60°	463.8	16.0
60°-70°	317.5	11.0
70°-80°	153.2	5.3
80°-90°	39.5	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°	838.1	29.0
0°-40°	1376.2	47.6
0°-60°	2383.8	82.4
0°-90°	2894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2894.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1052	1052	1050	1057	1058	100
15°	1009	1017	1028	1046	1050	285
25°	929	943	970	999	1009	428
35°	814	832	866	893	899	509
45°	668	686	712	729	729	515
55°	505	514	524	527	522	450
65°	323	327	324	313	306	320
75°	154	154	143	127	121	163
85°	30	32	35	36	36	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1054.1	1054.1	1054.1	1054.1	1054.1
2.5°	1055.4	1054.1	1050.3	1055.4	1055.4
5°	1051.5	1051.5	1050.3	1056.7	1058.0
7.5°	1043.8	1046.4	1047.7	1055.4	1056.7
10°	1036.0	1038.6	1043.8	1054.1	1056.7
12.5°	1023.1	1028.3	1037.3	1051.5	1054.1
15°	1008.9	1016.7	1028.3	1046.4	1050.3
17.5°	992.1	1002.5	1018.0	1038.6	1045.1
20°	972.7	984.4	1005.0	1028.3	1036.0
22.5°	952.1	965.0	989.5	1016.7	1024.4
25°	928.8	943.0	970.2	998.6	1008.9
27.5°	903.0	918.5	948.2	977.9	987.0
30°	874.6	891.4	923.7	953.4	961.1
32.5°	846.1	862.9	896.5	924.9	934.0
35°	813.8	831.9	865.5	892.7	899.1
37.5°	779.0	797.1	830.6	857.8	860.4
40°	744.1	762.2	793.2	817.7	820.3
42.5°	707.9	724.7	753.1	773.8	776.4
45°	667.9	686.0	711.8	728.6	728.6
47.5°	627.8	645.9	667.9	679.5	679.5
50°	586.5	603.3	621.4	627.8	626.5
52.5°	545.1	560.7	576.2	577.4	574.9
55°	505.1	514.1	524.5	527.1	521.9
57.5°	461.2	468.9	475.4	471.5	467.6
60°	414.7	422.4	423.7	417.3	413.4
62.5°	369.5	375.9	375.9	365.6	359.1
65°	323.0	326.8	324.2	312.6	306.2
67.5°	279.0	281.6	276.5	264.8	254.5
70°	233.8	235.1	228.7	214.4	208.0
72.5°	192.5	193.8	186.0	169.2	161.5
75°	153.7	153.7	143.4	126.6	121.4
77.5°	115.0	118.8	107.2	98.2	98.2
80°	82.7	86.6	74.9	76.2	74.9
82.5°	54.3	58.1	54.3	54.3	54.3
85°	29.7	32.3	34.9	36.2	36.2
87.5°	9.0	15.5	16.8	18.1	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)