

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: P297598

Luminaire Tested: **D3X-WD-31L82765-LD5-UNV-14-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297598
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-5500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3081.0 lumens
Efficiency: N/A
Efficacy: 105.9 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

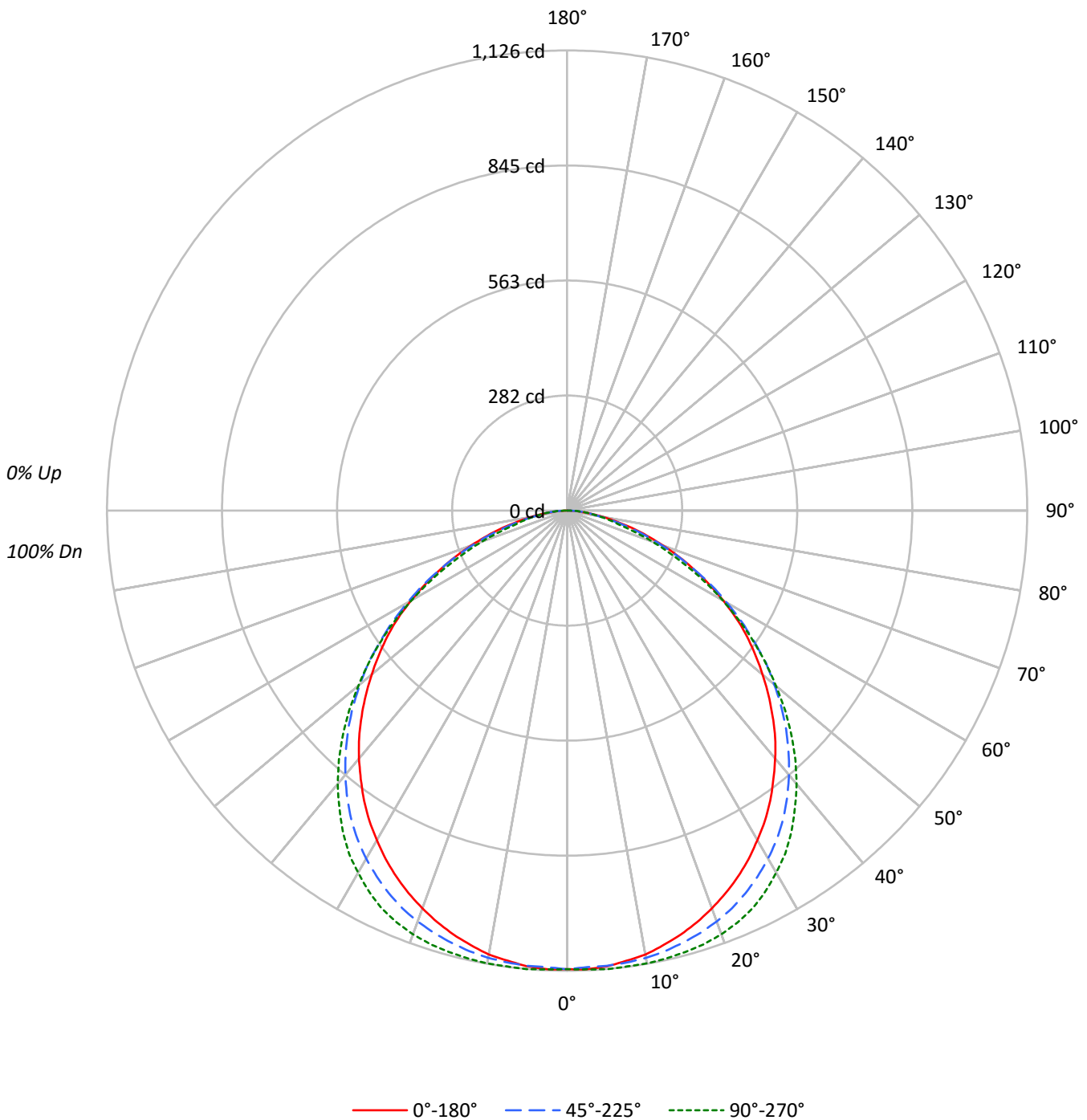
Input Watts (W): 29.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3020	3020	3020
5°	3024	3020	3043
10°	3014	3036	3074
15°	2992	3050	3115
20°	2966	3064	3159
25°	2936	3067	3189
30°	2893	3055	3179
35°	2846	3027	3144
40°	2783	2966	3068
45°	2706	2884	2952
50°	2614	2769	2792
55°	2523	2620	2607
60°	2376	2428	2369
65°	2189	2198	2075
70°	1958	1915	1742
75°	1702	1588	1344
80°	1364	1237	1237
85°	976	1145	1189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	3.5
10°-20°	309.8	10.1
20°-30°	475.7	15.4
30°-40°	572.9	18.6
40°-50°	578.9	18.8
50°-60°	493.8	16.0
60°-70°	338.0	11.0
70°-80°	163.1	5.3
80°-90°	42.1	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°	892.2	29.0
0°-40°	1465.1	47.6
0°-60°	2537.8	82.4
0°-90°	3081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3081.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1122	1122	1122	1122	1122	
5°	1120	1120	1118	1125	1126	106
15°	1074	1082	1095	1114	1118	303
25°	989	1004	1033	1063	1074	455
35°	866	886	921	950	957	541
45°	711	730	758	776	776	548
55°	538	547	558	561	556	479
65°	344	348	345	333	326	341
75°	164	164	153	135	129	174
85°	32	34	37	38	38	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1122.2	1122.2	1122.2	1122.2	1122.2
2.5°	1123.6	1122.2	1118.1	1123.6	1123.6
5°	1119.5	1119.5	1118.1	1125.0	1126.4
7.5°	1111.2	1114.0	1115.4	1123.6	1125.0
10°	1103.0	1105.7	1111.2	1122.2	1125.0
12.5°	1089.2	1094.7	1104.4	1119.5	1122.2
15°	1074.1	1082.4	1094.7	1114.0	1118.1
17.5°	1056.2	1067.2	1083.7	1105.7	1112.6
20°	1035.6	1048.0	1070.0	1094.7	1103.0
22.5°	1013.6	1027.3	1053.5	1082.4	1090.6
25°	988.8	1004.0	1032.8	1063.1	1074.1
27.5°	961.3	977.8	1009.5	1041.1	1050.7
30°	931.1	949.0	983.3	1015.0	1023.2
32.5°	900.8	918.7	954.5	984.7	994.3
35°	866.4	885.7	921.4	950.3	957.2
37.5°	829.3	848.6	884.3	913.2	915.9
40°	792.2	811.4	844.4	870.6	873.3
42.5°	753.7	771.5	801.8	823.8	826.6
45°	711.0	730.3	757.8	775.7	775.7
47.5°	668.4	687.6	711.0	723.4	723.4
50°	624.4	642.3	661.5	668.4	667.0
52.5°	580.4	596.9	613.4	614.8	612.0
55°	537.7	547.4	558.4	561.1	555.6
57.5°	491.0	499.2	506.1	502.0	497.9
60°	441.5	449.7	451.1	444.2	440.1
62.5°	393.3	400.2	400.2	389.2	382.3
65°	343.8	348.0	345.2	332.8	325.9
67.5°	297.1	299.8	294.3	281.9	270.9
70°	248.9	250.3	243.4	228.3	221.4
72.5°	204.9	206.3	198.0	180.2	171.9
75°	163.7	163.7	152.7	134.8	129.3
77.5°	122.4	126.5	114.1	104.5	104.5
80°	88.0	92.1	79.8	81.1	79.8
82.5°	57.8	61.9	57.8	57.8	57.8
85°	31.6	34.4	37.1	38.5	38.5
87.5°	9.6	16.5	17.9	19.3	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)