

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: P297560

Luminaire Tested: **D3X-WD-31L83050-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297560
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-31L83050-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: 2963.0 lumens
Efficiency: N/A
Efficacy: 104.7 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

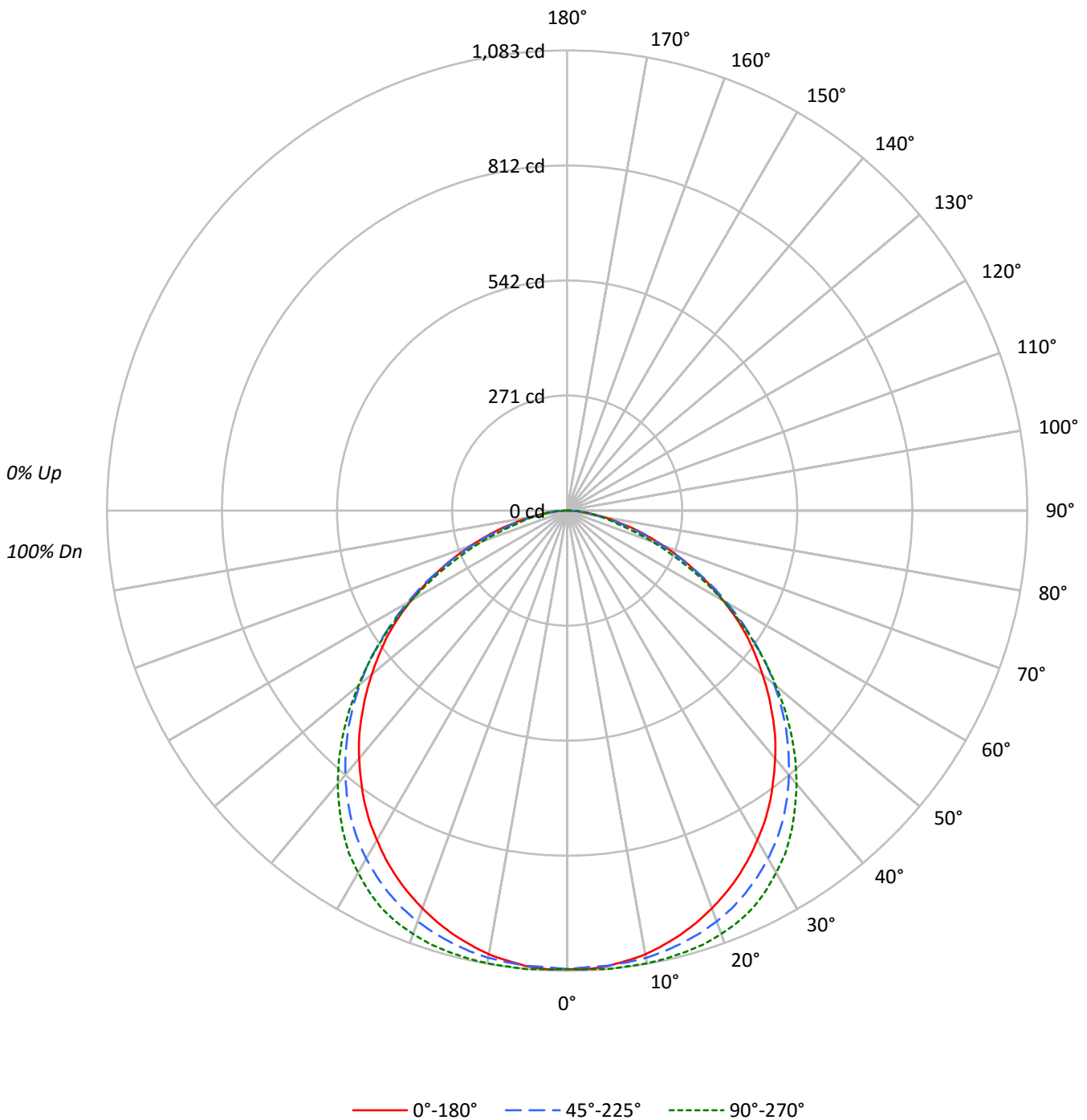
Input Watts (W): 28.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2904	2904	2904
5°	2908	2905	2926
10°	2898	2920	2956
15°	2878	2933	2996
20°	2852	2947	3038
25°	2824	2949	3067
30°	2782	2939	3058
35°	2737	2911	3024
40°	2676	2853	2950
45°	2602	2774	2839
50°	2514	2663	2686
55°	2426	2519	2507
60°	2285	2335	2278
65°	2106	2114	1996
70°	1884	1842	1675
75°	1637	1526	1292
80°	1311	1189	1189
85°	939	1102	1142



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.7	3.5
10°-20°	297.9	10.1
20°-30°	457.4	15.4
30°-40°	550.9	18.6
40°-50°	556.8	18.8
50°-60°	474.9	16.0
60°-70°	325.1	11.0
70°-80°	156.9	5.3
80°-90°	40.4	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°	858.0	29.0
0°-40°	1409.0	47.6
0°-60°	2440.6	82.4
0°-90°	2963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2963.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1079	1079	1079	1079	1079	
5°	1077	1077	1075	1082	1083	102
15°	1033	1041	1053	1071	1075	291
25°	951	966	993	1022	1033	438
35°	833	852	886	914	920	521
45°	684	702	729	746	746	527
55°	517	526	537	540	534	461
65°	331	335	332	320	314	328
75°	157	157	147	130	124	167
85°	30	33	36	37	37	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1079.3	1079.3	1079.3	1079.3	1079.3
2.5°	1080.6	1079.3	1075.3	1080.6	1080.6
5°	1076.6	1076.6	1075.3	1081.9	1083.2
7.5°	1068.7	1071.3	1072.6	1080.6	1081.9
10°	1060.7	1063.4	1068.7	1079.3	1081.9
12.5°	1047.5	1052.8	1062.1	1076.6	1079.3
15°	1033.0	1040.9	1052.8	1071.3	1075.3
17.5°	1015.8	1026.4	1042.2	1063.4	1070.0
20°	995.9	1007.8	1029.0	1052.8	1060.7
22.5°	974.8	988.0	1013.1	1040.9	1048.8
25°	951.0	965.5	993.3	1022.4	1033.0
27.5°	924.5	940.4	970.8	1001.2	1010.5
30°	895.4	912.6	945.7	976.1	984.0
32.5°	866.3	883.5	917.9	947.0	956.3
35°	833.3	851.8	886.2	913.9	920.5
37.5°	797.5	816.1	850.4	878.2	880.9
40°	761.8	780.3	812.1	837.2	839.9
42.5°	724.8	742.0	771.1	792.3	794.9
45°	683.8	702.3	728.8	746.0	746.0
47.5°	642.8	661.3	683.8	695.7	695.7
50°	600.5	617.7	636.2	642.8	641.5
52.5°	558.1	574.0	589.9	591.2	588.6
55°	517.1	526.4	537.0	539.6	534.3
57.5°	472.2	480.1	486.7	482.8	478.8
60°	424.6	432.5	433.8	427.2	423.2
62.5°	378.3	384.9	384.9	374.3	367.7
65°	330.7	334.6	332.0	320.1	313.5
67.5°	285.7	288.3	283.0	271.1	260.6
70°	239.4	240.7	234.1	219.6	212.9
72.5°	197.1	198.4	190.5	173.3	165.3
75°	157.4	157.4	146.8	129.6	124.3
77.5°	117.7	121.7	109.8	100.5	100.5
80°	84.6	88.6	76.7	78.0	76.7
82.5°	55.6	59.5	55.6	55.6	55.6
85°	30.4	33.1	35.7	37.0	37.0
87.5°	9.3	15.9	17.2	18.5	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)