

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: P297697

Luminaire Tested: **D3X-WG-26L83050-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-26L83050-LD5-UNV-14-T1-W2A-4500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2685.0 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

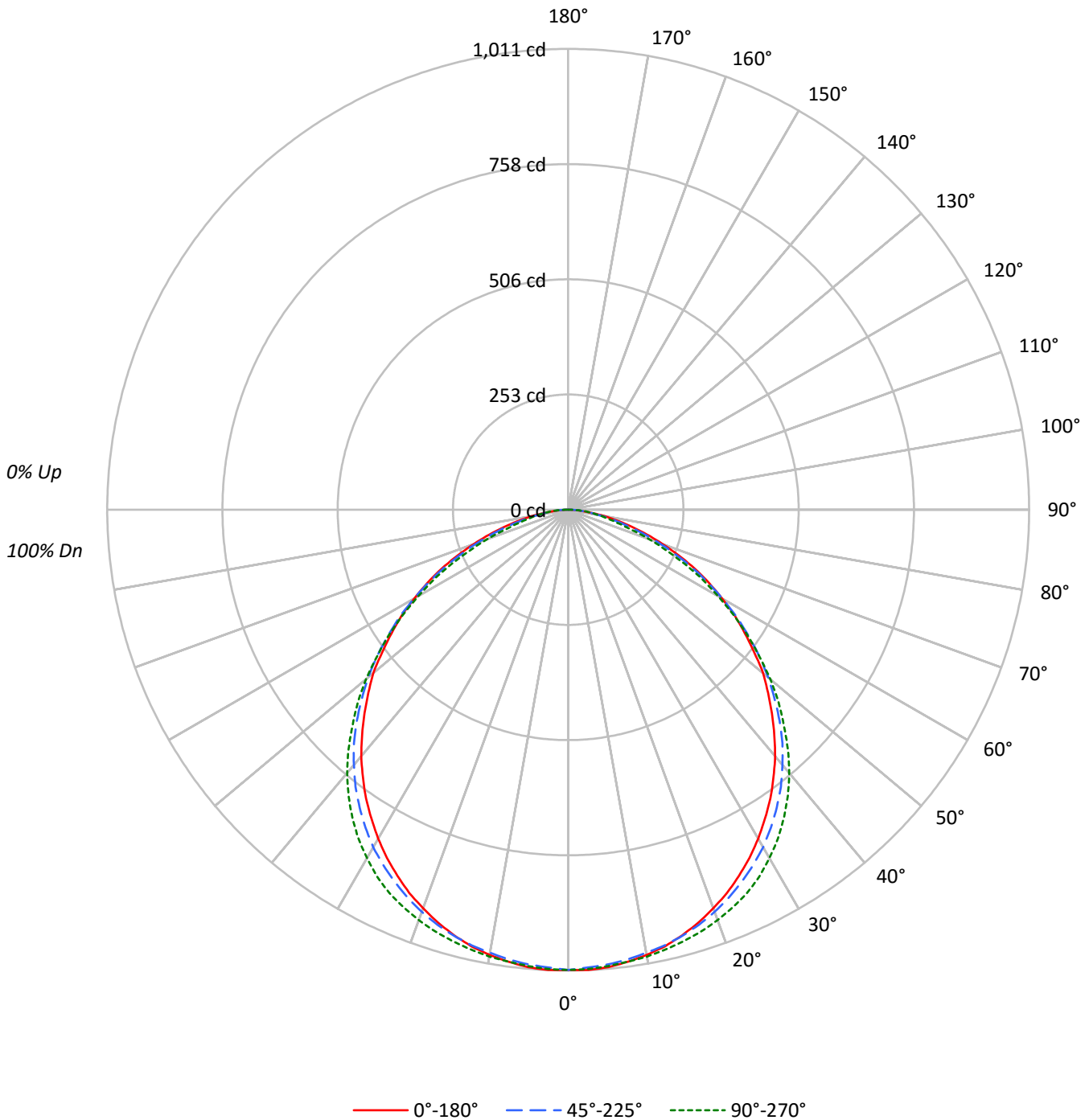
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	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°	2717	2717	2717
5°	2721	2705	2715
10°	2710	2697	2720
15°	2693	2696	2730
20°	2665	2689	2744
25°	2631	2674	2756
30°	2589	2656	2742
35°	2540	2619	2710
40°	2480	2569	2649
45°	2404	2495	2545
50°	2337	2398	2423
55°	2220	2265	2253
60°	2100	2100	2042
65°	1950	1904	1797
70°	1729	1653	1493
75°	1498	1361	1149
80°	1227	1060	1041
85°	815	963	1037



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	3.6
10°-20°	274.1	10.2
20°-30°	416.5	15.5
30°-40°	498.7	18.6
40°-50°	503.0	18.7
50°-60°	428.5	16.0
60°-70°	293.0	10.9
70°-80°	140.3	5.2
80°-90°	35.5	1.3
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°	786.0	29.3
0°-40°	1284.7	47.8
0°-60°	2216.2	82.5
0°-90°	2685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2685.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1010	1010	1010	1010	1010	
5°	1007	1006	1001	1006	1005	96
15°	967	964	968	979	980	273
25°	886	887	900	921	928	408
35°	773	776	797	820	825	483
45°	632	636	656	669	669	488
55°	473	476	483	484	480	424
65°	306	300	299	288	282	302
75°	144	142	131	114	110	154
85°	26	29	31	32	34	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1009.8	1009.8	1009.8	1009.8	1009.8
2.5°	1011.0	1009.8	1005.0	1009.8	1008.6
5°	1007.4	1006.2	1001.4	1006.2	1005.0
7.5°	1000.2	999.0	995.4	1000.2	1000.2
10°	991.8	989.4	987.0	994.2	995.4
12.5°	981.0	978.6	978.6	987.0	988.2
15°	966.6	964.2	967.8	978.6	979.8
17.5°	949.7	948.5	954.5	967.8	970.2
20°	930.5	929.3	938.9	954.5	958.1
22.5°	910.1	910.1	920.9	938.9	943.7
25°	886.1	887.3	900.5	920.9	928.1
27.5°	860.9	863.3	878.9	901.7	907.7
30°	833.3	836.9	854.9	876.5	882.5
32.5°	803.3	806.9	827.3	850.1	856.1
35°	773.2	775.6	797.3	820.1	824.9
37.5°	739.6	743.2	766.0	786.5	791.3
40°	706.0	709.6	731.2	750.4	754.0
42.5°	668.8	673.6	695.2	710.8	713.2
45°	631.6	636.4	655.6	668.8	668.8
47.5°	594.3	596.7	613.6	626.8	625.6
50°	558.3	557.1	572.7	578.7	578.7
52.5°	513.9	517.5	528.3	531.9	528.3
55°	473.1	475.5	482.7	483.9	480.3
57.5°	433.4	432.2	438.3	434.6	429.8
60°	390.2	390.2	390.2	386.6	379.4
62.5°	348.2	345.8	344.6	336.2	332.6
65°	306.2	300.2	299.0	288.2	282.2
67.5°	261.7	259.3	253.3	242.5	231.7
70°	219.7	217.3	210.1	196.9	189.7
72.5°	181.3	178.9	169.3	153.7	144.1
75°	144.1	141.7	130.9	114.1	110.5
77.5°	109.3	108.1	97.3	88.9	87.7
80°	79.2	78.0	68.4	68.4	67.2
82.5°	50.4	50.4	48.0	49.2	50.4
85°	26.4	28.8	31.2	32.4	33.6
87.5°	8.4	13.2	15.6	16.8	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)