

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: P297691

Luminaire Tested: **D3X-WG-23L83050-LD5-UNV-14-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297691
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-23L83050-LD5-UNV-14-T1-W2A-4000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2356.0 lumens
Efficiency: N/A
Efficacy: 111.7 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

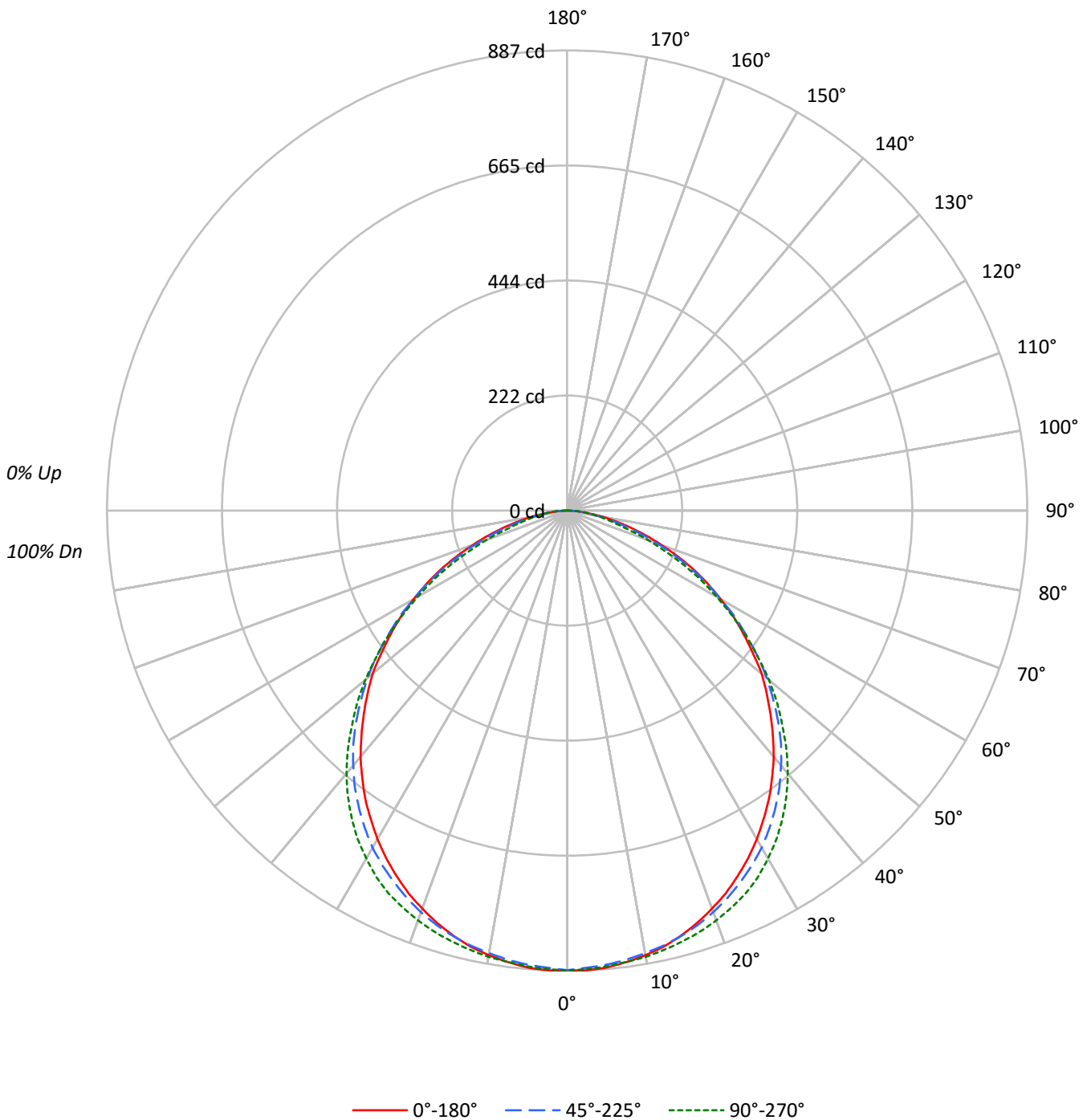
Input Watts (W): 21.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2384	2384	2384
5°	2388	2374	2382
10°	2378	2366	2387
15°	2363	2366	2395
20°	2338	2359	2407
25°	2309	2346	2418
30°	2272	2331	2406
35°	2229	2298	2378
40°	2176	2254	2324
45°	2109	2189	2233
50°	2051	2104	2126
55°	1947	1987	1977
60°	1843	1843	1792
65°	1711	1670	1577
70°	1517	1451	1310
75°	1314	1194	1007
80°	1077	931	914
85°	716	846	911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.8	3.6
10°-20°	240.5	10.2
20°-30°	365.5	15.5
30°-40°	437.6	18.6
40°-50°	441.4	18.7
50°-60°	376.0	16.0
60°-70°	257.1	10.9
70°-80°	123.1	5.2
80°-90°	31.2	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°	689.7	29.3
0°-40°	1127.3	47.8
0°-60°	1944.7	82.5
0°-90°	2356.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2356.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	886	886	886	886	886	
5°	884	883	879	883	882	84
15°	848	846	849	859	860	239
25°	778	779	790	808	814	358
35°	678	681	700	720	724	424
45°	554	558	575	587	587	428
55°	415	417	424	425	421	372
65°	269	263	262	253	248	265
75°	126	124	115	100	97	135
85°	23	25	27	28	30	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	886.0	886.0	886.0	886.0	886.0
2.5°	887.1	886.0	881.8	886.0	885.0
5°	883.9	882.9	878.7	882.9	881.8
7.5°	877.6	876.6	873.4	877.6	877.6
10°	870.2	868.1	866.0	872.4	873.4
12.5°	860.8	858.7	858.7	866.0	867.1
15°	848.1	846.0	849.2	858.7	859.7
17.5°	833.4	832.3	837.6	849.2	851.3
20°	816.5	815.5	823.9	837.6	840.7
22.5°	798.6	798.6	808.1	823.9	828.1
25°	777.5	778.6	790.2	808.1	814.4
27.5°	755.4	757.5	771.2	791.2	796.5
30°	731.2	734.3	750.1	769.1	774.4
32.5°	704.8	708.0	725.9	745.9	751.2
35°	678.5	680.6	699.6	719.6	723.8
37.5°	649.0	652.2	672.2	690.1	694.3
40°	619.5	622.7	641.6	658.5	661.6
42.5°	586.8	591.0	610.0	623.7	625.8
45°	554.2	558.4	575.2	586.8	586.8
47.5°	521.5	523.6	538.4	550.0	548.9
50°	489.9	488.9	502.6	507.8	507.8
52.5°	450.9	454.1	463.6	466.7	463.6
55°	415.1	417.2	423.5	424.6	421.4
57.5°	380.3	379.3	384.6	381.4	377.2
60°	342.4	342.4	342.4	339.2	332.9
62.5°	305.5	303.4	302.4	295.0	291.8
65°	268.7	263.4	262.3	252.9	247.6
67.5°	229.7	227.6	222.3	212.8	203.3
70°	192.8	190.7	184.4	172.8	166.5
72.5°	159.1	157.0	148.6	134.9	126.4
75°	126.4	124.3	114.8	100.1	96.9
77.5°	95.9	94.8	85.3	78.0	76.9
80°	69.5	68.5	60.1	60.1	59.0
82.5°	44.2	44.2	42.1	43.2	44.2
85°	23.2	25.3	27.4	28.4	29.5
87.5°	7.4	11.6	13.7	14.7	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)