

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: P297550

Luminaire Tested: **D3X-WD-23L83050-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297550
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-23L83050-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: 2248.0 lumens
Efficiency: N/A
Efficacy: 109.1 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

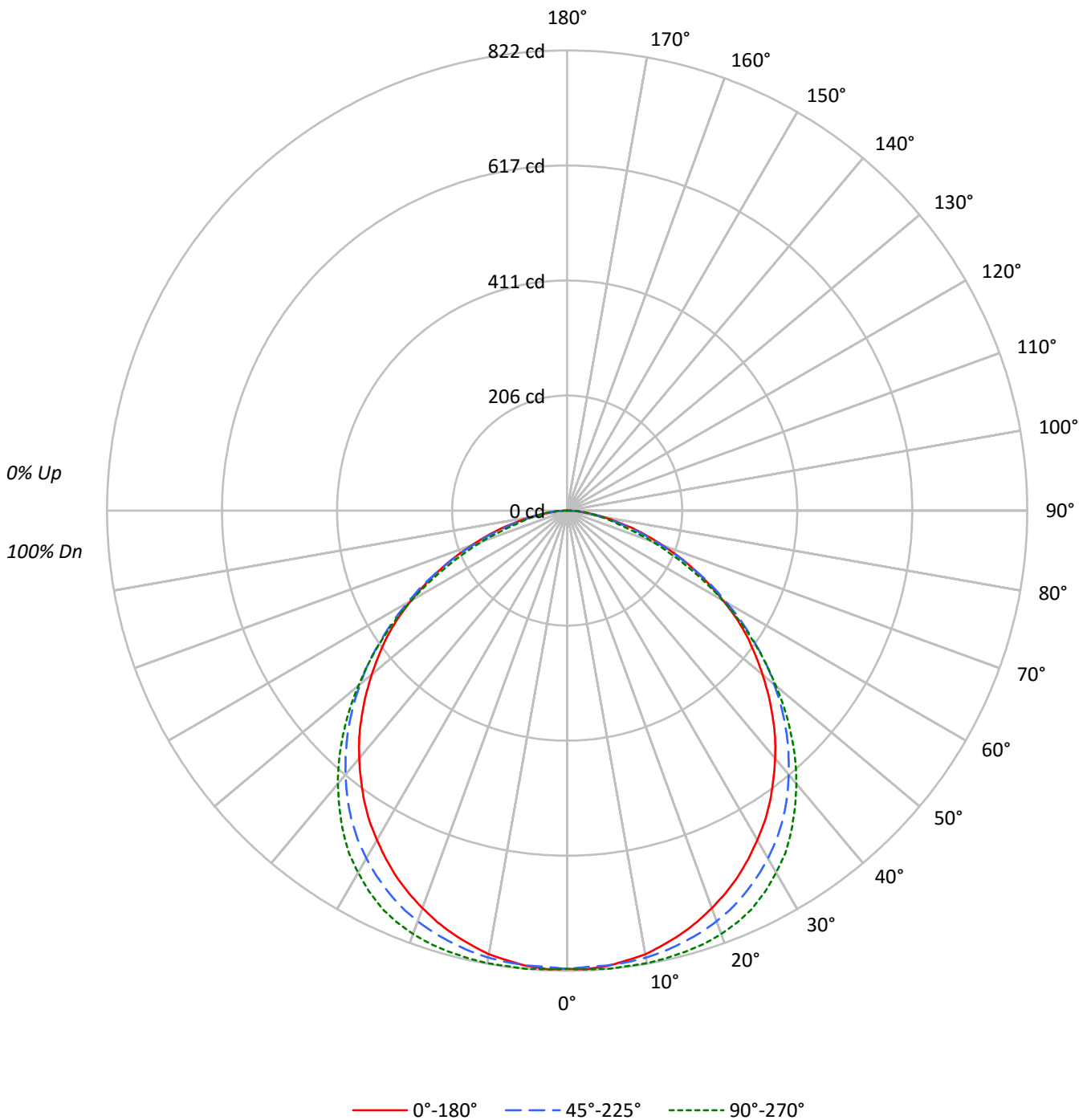
Input Watts (W): 20.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2203	2203	2203
5°	2206	2204	2220
10°	2199	2216	2243
15°	2183	2225	2273
20°	2164	2236	2305
25°	2142	2238	2327
30°	2111	2229	2320
35°	2077	2209	2294
40°	2030	2164	2238
45°	1974	2104	2154
50°	1907	2021	2038
55°	1841	1911	1902
60°	1734	1771	1728
65°	1598	1604	1514
70°	1429	1397	1271
75°	1241	1158	980
80°	995	902	902
85°	713	837	868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	3.5
10°-20°	226.0	10.1
20°-30°	347.1	15.4
30°-40°	418.0	18.6
40°-50°	422.4	18.8
50°-60°	360.3	16.0
60°-70°	246.6	11.0
70°-80°	119.0	5.3
80°-90°	30.7	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°	651.0	29.0
0°-40°	1069.0	47.6
0°-60°	1851.7	82.4
0°-90°	2248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2248.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	819	819	819	819	819	
5°	817	817	816	821	822	78
15°	784	790	799	813	816	221
25°	722	732	754	776	784	332
35°	632	646	672	693	698	395
45°	519	533	553	566	566	400
55°	392	399	407	409	405	349
65°	251	254	252	243	238	249
75°	119	119	111	98	94	127
85°	23	25	27	28	28	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	818.8	818.8	818.8	818.8	818.8
2.5°	819.8	818.8	815.8	819.8	819.8
5°	816.8	816.8	815.8	820.8	821.8
7.5°	810.8	812.8	813.8	819.8	820.8
10°	804.8	806.8	810.8	818.8	820.8
12.5°	794.7	798.8	805.8	816.8	818.8
15°	783.7	789.7	798.8	812.8	815.8
17.5°	770.7	778.7	790.7	806.8	811.8
20°	755.6	764.6	780.7	798.8	804.8
22.5°	739.6	749.6	768.7	789.7	795.7
25°	721.5	732.5	753.6	775.7	783.7
27.5°	701.4	713.5	736.5	759.6	766.6
30°	679.3	692.4	717.5	740.6	746.6
32.5°	657.3	670.3	696.4	718.5	725.5
35°	632.2	646.2	672.3	693.4	698.4
37.5°	605.1	619.1	645.2	666.3	668.3
40°	578.0	592.0	616.1	635.2	637.2
42.5°	549.9	562.9	585.0	601.1	603.1
45°	518.8	532.8	552.9	566.0	566.0
47.5°	487.7	501.7	518.8	527.8	527.8
50°	455.6	468.6	482.7	487.7	486.7
52.5°	423.5	435.5	447.5	448.5	446.5
55°	392.4	399.4	407.4	409.4	405.4
57.5°	358.2	364.3	369.3	366.3	363.3
60°	322.1	328.1	329.1	324.1	321.1
62.5°	287.0	292.0	292.0	284.0	279.0
65°	250.9	253.9	251.9	242.8	237.8
67.5°	216.7	218.8	214.7	205.7	197.7
70°	181.6	182.6	177.6	166.6	161.6
72.5°	149.5	150.5	144.5	131.5	125.4
75°	119.4	119.4	111.4	98.3	94.3
77.5°	89.3	92.3	83.3	76.3	76.3
80°	64.2	67.2	58.2	59.2	58.2
82.5°	42.1	45.2	42.1	42.1	42.1
85°	23.1	25.1	27.1	28.1	28.1
87.5°	7.0	12.0	13.0	14.0	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)