

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: P297576

Luminaire Tested: **D3X-WD-23L82765-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297576
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-23L82765-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: 2195.0 lumens
Efficiency: N/A
Efficacy: 106.0 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

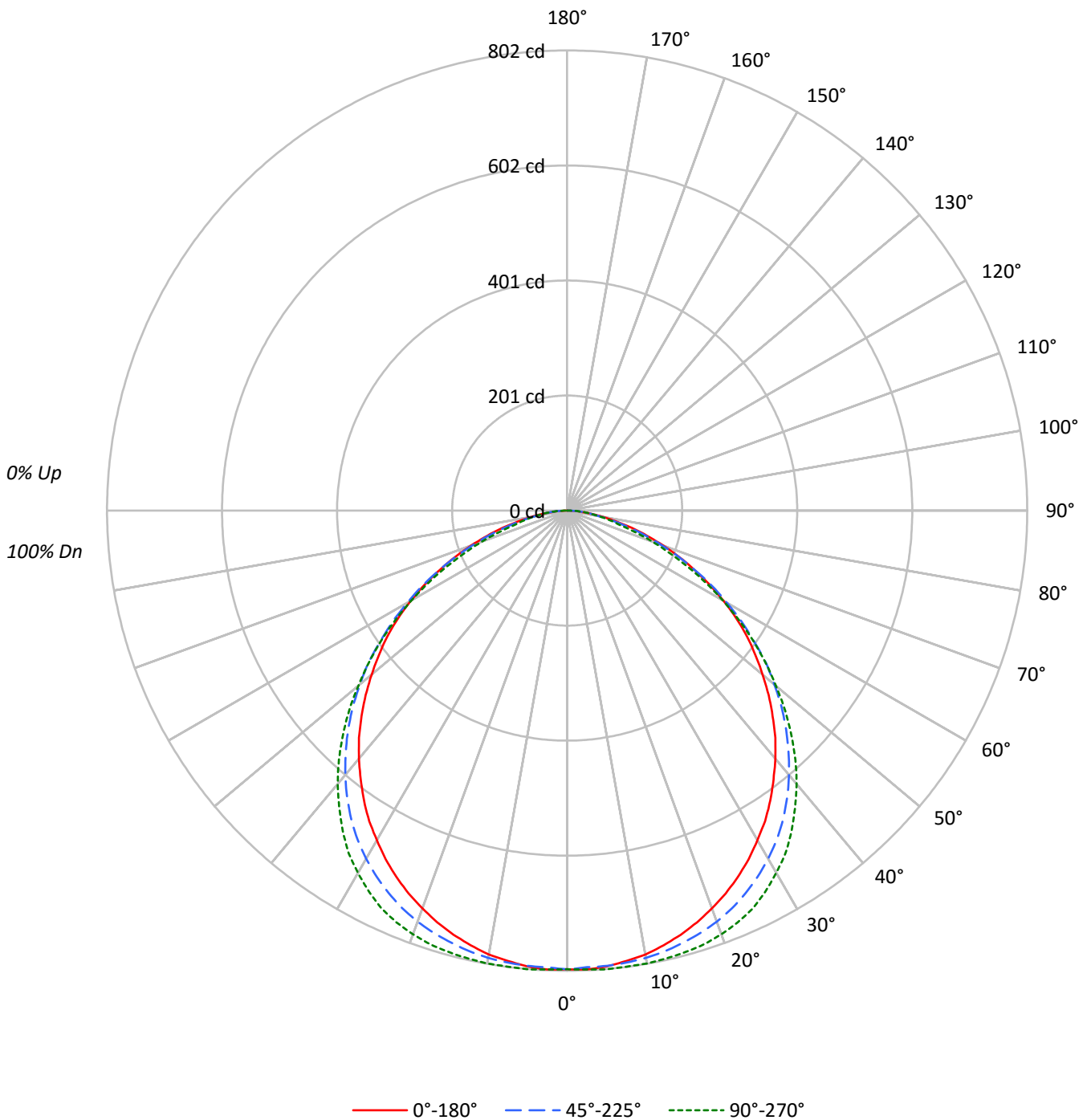
Input Watts (W): 20.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2151	2151	2151
5°	2155	2152	2168
10°	2147	2163	2190
15°	2132	2173	2219
20°	2113	2183	2250
25°	2092	2185	2272
30°	2061	2177	2265
35°	2028	2157	2240
40°	1983	2113	2186
45°	1928	2055	2103
50°	1862	1973	1989
55°	1797	1866	1857
60°	1693	1730	1687
65°	1560	1566	1479
70°	1395	1364	1241
75°	1212	1131	958
80°	972	880	880
85°	695	818	846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	3.5
10°-20°	220.7	10.1
20°-30°	338.9	15.4
30°-40°	408.1	18.6
40°-50°	412.4	18.8
50°-60°	351.8	16.0
60°-70°	240.8	11.0
70°-80°	116.2	5.3
80°-90°	30.0	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°	635.6	29.0
0°-40°	1043.8	47.6
0°-60°	1808.0	82.4
0°-90°	2195.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2195.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	800	800	800	800	800	
5°	798	798	797	802	802	76
15°	765	771	780	794	797	216
25°	704	715	736	757	765	324
35°	617	631	656	677	682	386
45°	507	520	540	553	553	391
55°	383	390	398	400	396	341
65°	245	248	246	237	232	243
75°	117	117	109	96	92	124
85°	22	24	26	27	27	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	799.5	799.5	799.5	799.5	799.5
2.5°	800.5	799.5	796.6	800.5	800.5
5°	797.6	797.6	796.6	801.5	802.5
7.5°	791.7	793.6	794.6	800.5	801.5
10°	785.8	787.8	791.7	799.5	801.5
12.5°	776.0	779.9	786.8	797.6	799.5
15°	765.2	771.1	779.9	793.6	796.6
17.5°	752.5	760.3	772.1	787.8	792.7
20°	737.8	746.6	762.3	779.9	785.8
22.5°	722.1	731.9	750.5	771.1	777.0
25°	704.5	715.3	735.8	757.4	765.2
27.5°	684.9	696.6	719.2	741.7	748.6
30°	663.3	676.1	700.6	723.1	729.0
32.5°	641.8	654.5	680.0	701.5	708.4
35°	617.3	631.0	656.5	677.0	681.9
37.5°	590.8	604.5	630.0	650.6	652.5
40°	564.4	578.1	601.6	620.2	622.2
42.5°	536.9	549.7	571.2	586.9	588.9
45°	506.6	520.3	539.9	552.6	552.6
47.5°	476.2	489.9	506.6	515.4	515.4
50°	444.8	457.6	471.3	476.2	475.2
52.5°	413.5	425.2	437.0	438.0	436.0
55°	383.1	390.0	397.8	399.8	395.8
57.5°	349.8	355.7	360.6	357.6	354.7
60°	314.5	320.4	321.4	316.5	313.5
62.5°	280.2	285.1	285.1	277.3	272.4
65°	245.0	247.9	245.9	237.1	232.2
67.5°	211.6	213.6	209.7	200.9	193.0
70°	177.3	178.3	173.4	162.6	157.7
72.5°	146.0	147.0	141.1	128.4	122.5
75°	116.6	116.6	108.8	96.0	92.1
77.5°	87.2	90.1	81.3	74.5	74.5
80°	62.7	65.6	56.8	57.8	56.8
82.5°	41.2	44.1	41.2	41.2	41.2
85°	22.5	24.5	26.5	27.4	27.4
87.5°	6.9	11.8	12.7	13.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)