

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: P297577

Luminaire Tested: **D3X-WD-23L82765-LD5-UNV-14-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297577
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-4000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2244.0 lumens
Efficiency: N/A
Efficacy: 107.4 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

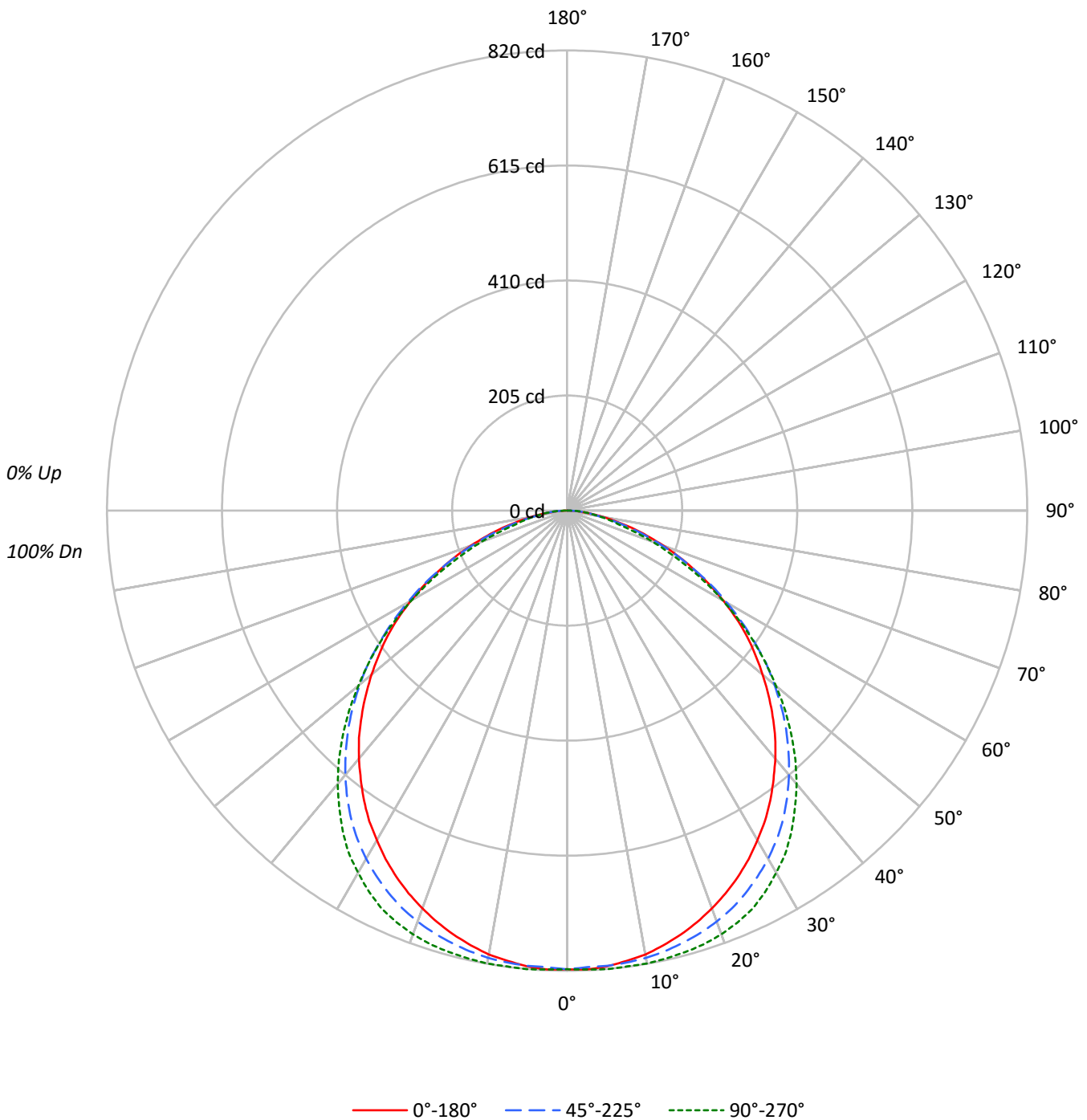
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2200	2200	2200
5°	2203	2200	2216
10°	2195	2212	2239
15°	2179	2221	2269
20°	2160	2232	2300
25°	2138	2234	2323
30°	2107	2225	2316
35°	2073	2205	2290
40°	2027	2160	2235
45°	1971	2100	2150
50°	1904	2017	2034
55°	1838	1908	1899
60°	1730	1769	1725
65°	1594	1601	1512
70°	1426	1395	1269
75°	1239	1156	979
80°	993	900	900
85°	710	834	865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.8	3.5
10°-20°	225.6	10.1
20°-30°	346.4	15.4
30°-40°	417.2	18.6
40°-50°	421.6	18.8
50°-60°	359.6	16.0
60°-70°	246.2	11.0
70°-80°	118.8	5.3
80°-90°	30.6	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°	649.8	29.0
0°-40°	1067.1	47.6
0°-60°	1848.4	82.4
0°-90°	2244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2244.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	815	815	814	819	820	77
15°	782	788	797	811	814	221
25°	720	731	752	774	782	332
35°	631	645	671	692	697	394
45°	518	532	552	565	565	399
55°	392	399	407	409	405	349
65°	250	253	251	242	237	248
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°	817.4	817.4	817.4	817.4	817.4
2.5°	818.4	817.4	814.4	818.4	818.4
5°	815.4	815.4	814.4	819.4	820.4
7.5°	809.4	811.4	812.4	818.4	819.4
10°	803.3	805.3	809.4	817.4	819.4
12.5°	793.3	797.3	804.3	815.4	817.4
15°	782.3	788.3	797.3	811.4	814.4
17.5°	769.3	777.3	789.3	805.3	810.4
20°	754.3	763.3	779.3	797.3	803.3
22.5°	738.2	748.3	767.3	788.3	794.3
25°	720.2	731.2	752.3	774.3	782.3
27.5°	700.2	712.2	735.2	758.3	765.3
30°	678.1	691.2	716.2	739.2	745.2
32.5°	656.1	669.1	695.2	717.2	724.2
35°	631.1	645.1	671.1	692.2	697.2
37.5°	604.0	618.0	644.1	665.1	667.1
40°	577.0	591.0	615.0	634.1	636.1
42.5°	548.9	561.9	584.0	600.0	602.0
45°	517.9	531.9	551.9	564.9	564.9
47.5°	486.8	500.8	517.9	526.9	526.9
50°	454.8	467.8	481.8	486.8	485.8
52.5°	422.7	434.7	446.7	447.7	445.7
55°	391.7	398.7	406.7	408.7	404.7
57.5°	357.6	363.6	368.6	365.6	362.6
60°	321.5	327.5	328.6	323.5	320.5
62.5°	286.5	291.5	291.5	283.5	278.5
65°	250.4	253.4	251.4	242.4	237.4
67.5°	216.4	218.4	214.4	205.3	197.3
70°	181.3	182.3	177.3	166.3	161.3
72.5°	149.2	150.3	144.2	131.2	125.2
75°	119.2	119.2	111.2	98.2	94.2
77.5°	89.1	92.2	83.1	76.1	76.1
80°	64.1	67.1	58.1	59.1	58.1
82.5°	42.1	45.1	42.1	42.1	42.1
85°	23.0	25.0	27.0	28.0	28.0
87.5°	7.0	12.0	13.0	14.0	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)