

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: P297854

Luminaire Tested: **D3X-WO-23L82765-LD5-UNV-14-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-23L82765-LD5-UNV-14-T1-W2A-2700K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2172.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

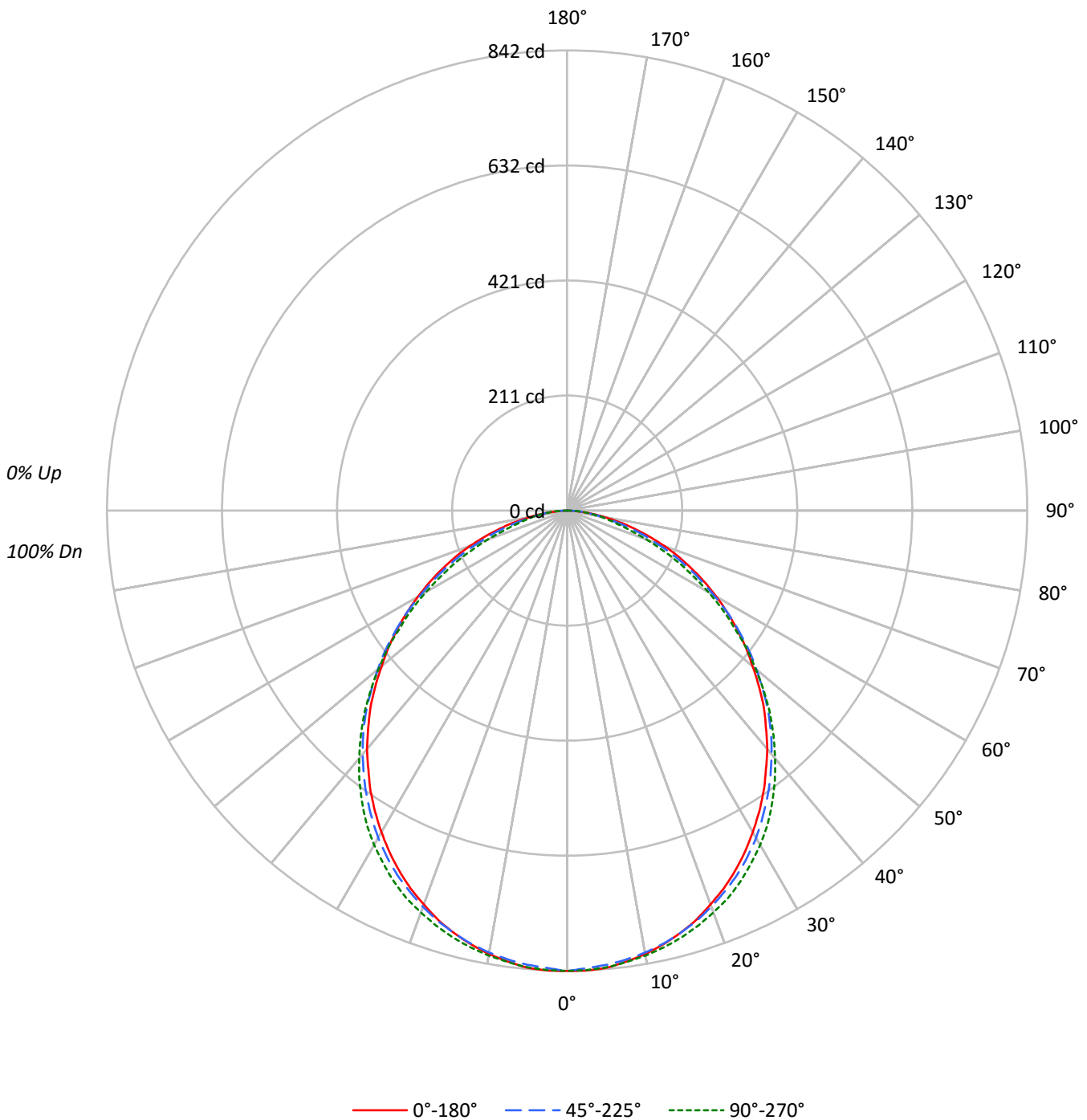
Input Watts (W): 20.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	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	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	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	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2267	2267	2267
5°	2268	2253	2266
10°	2252	2244	2259
15°	2229	2229	2252
20°	2196	2209	2241
25°	2160	2184	2225
30°	2111	2148	2194
35°	2060	2099	2147
40°	2002	2044	2080
45°	1937	1980	1997
50°	1854	1893	1885
55°	1784	1797	1749
60°	1695	1670	1605
65°	1601	1536	1431
70°	1485	1362	1210
75°	1321	1168	996
80°	1099	956	927
85°	797	852	852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.5	3.7
10°-20°	226.5	10.4
20°-30°	339.4	15.6
30°-40°	399.9	18.4
40°-50°	398.9	18.4
50°-60°	339.3	15.6
60°-70°	236.8	10.9
70°-80°	120.4	5.5
80°-90°	31.4	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°	645.4	29.7
0°-40°	1045.3	48.1
0°-60°	1783.4	82.1
0°-90°	2172.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2172.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	840	838	834	839	839	80
15°	800	800	800	808	808	226
25°	727	728	736	747	750	335
35°	627	628	639	652	654	392
45°	509	511	520	524	525	392
55°	380	380	383	378	373	340
65°	251	248	241	228	225	249
75°	127	122	112	98	96	135
85°	26	27	28	28	28	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	842.4	842.4	842.4	842.4	842.4
2.5°	842.4	841.5	837.8	841.5	841.5
5°	839.7	837.8	834.2	838.8	838.8
7.5°	832.3	831.4	828.6	833.2	833.2
10°	824.0	823.1	821.3	826.8	826.8
12.5°	813.0	813.0	812.1	817.6	818.5
15°	800.1	800.1	800.1	807.5	808.4
17.5°	785.4	784.4	787.2	795.5	796.4
20°	766.9	767.9	771.5	780.8	782.6
22.5°	748.5	749.5	754.1	765.1	767.9
25°	727.4	728.3	735.6	746.7	749.5
27.5°	704.3	706.2	714.5	726.4	728.3
30°	679.5	681.3	691.4	703.4	706.2
32.5°	653.7	656.5	665.7	678.6	682.2
35°	627.0	627.9	639.0	651.9	653.7
37.5°	597.5	600.3	611.3	622.4	624.2
40°	569.9	571.8	581.9	591.1	592.0
42.5°	538.6	541.4	552.4	558.9	558.9
45°	509.1	511.0	520.2	523.9	524.8
47.5°	476.0	477.8	486.1	488.0	488.0
50°	442.9	447.5	452.1	452.1	450.2
52.5°	412.5	413.4	418.9	415.2	413.4
55°	380.3	380.3	383.0	377.5	372.9
57.5°	348.0	348.0	348.0	340.7	337.0
60°	314.9	314.0	310.3	301.1	298.3
62.5°	283.6	280.8	275.3	266.1	260.6
65°	251.4	247.7	241.2	228.3	224.7
67.5°	221.0	214.5	207.2	195.2	188.7
70°	188.7	183.2	173.1	159.3	153.8
72.5°	157.4	151.9	143.6	129.8	121.5
75°	127.1	122.5	112.3	98.5	95.8
77.5°	97.6	94.8	84.7	78.3	77.3
80°	70.9	70.0	61.7	59.8	59.8
82.5°	47.0	46.0	43.3	43.3	42.4
85°	25.8	26.7	27.6	27.6	27.6
87.5°	9.2	11.0	12.9	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)