

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: P297715

Luminaire Tested: **D3X-WG-23L82765-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297715
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-23L82765-LD5-UNV-14-T1-W2A-3000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2118.0 lumens
Efficiency: N/A
Efficacy: 103.3 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

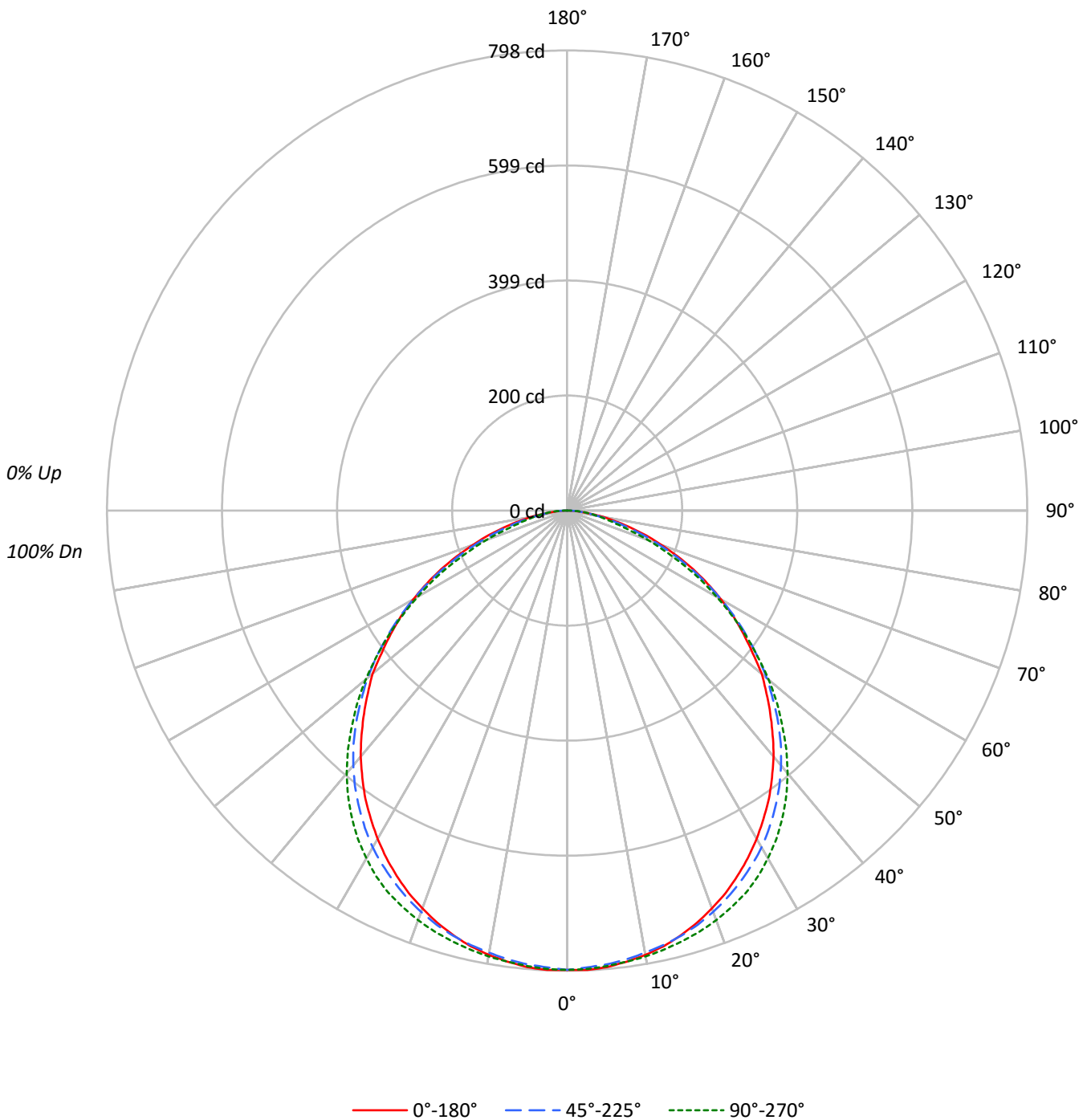
Input Watts (W): 20.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2143	2143	2143
5°	2146	2134	2142
10°	2138	2127	2146
15°	2124	2127	2153
20°	2102	2121	2164
25°	2075	2109	2174
30°	2042	2096	2163
35°	2004	2066	2138
40°	1956	2026	2089
45°	1896	1968	2008
50°	1844	1891	1911
55°	1751	1786	1778
60°	1657	1657	1611
65°	1538	1501	1417
70°	1364	1304	1177
75°	1182	1073	906
80°	969	837	821
85°	642	760	818



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.3	3.6
10°-20°	216.2	10.2
20°-30°	328.6	15.5
30°-40°	393.4	18.6
40°-50°	396.8	18.7
50°-60°	338.0	16.0
60°-70°	231.1	10.9
70°-80°	110.7	5.2
80°-90°	28.0	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°	620.1	29.3
0°-40°	1013.4	47.8
0°-60°	1748.2	82.5
0°-90°	2118.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2118.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	796	796	796	796	796	
5°	795	794	790	794	793	75
15°	762	760	763	772	773	215
25°	699	700	710	726	732	322
35°	610	612	629	647	651	381
45°	498	502	517	528	528	385
55°	373	375	381	382	379	334
65°	242	237	236	227	223	238
75°	114	112	103	90	87	121
85°	21	23	25	26	26	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	796.5	796.5	796.5	796.5	796.5
2.5°	797.5	796.5	792.8	796.5	795.6
5°	794.6	793.7	789.9	793.7	792.8
7.5°	789.0	788.0	785.2	789.0	789.0
10°	782.3	780.4	778.5	784.2	785.2
12.5°	773.8	771.9	771.9	778.5	779.5
15°	762.4	760.5	763.4	771.9	772.9
17.5°	749.2	748.2	753.0	763.4	765.3
20°	734.0	733.1	740.7	753.0	755.8
22.5°	717.9	717.9	726.5	740.7	744.4
25°	699.0	699.9	710.4	726.5	732.1
27.5°	679.1	681.0	693.3	711.3	716.0
30°	657.3	660.2	674.4	691.4	696.1
32.5°	633.6	636.5	652.6	670.6	675.3
35°	610.0	611.8	628.9	646.9	650.7
37.5°	583.4	586.3	604.3	620.4	624.2
40°	556.9	559.8	576.8	592.0	594.8
42.5°	527.6	531.3	548.4	560.7	562.6
45°	498.2	502.0	517.1	527.6	527.6
47.5°	468.8	470.7	484.0	494.4	493.5
50°	440.4	439.5	451.8	456.5	456.5
52.5°	405.4	408.2	416.7	419.6	416.7
55°	373.2	375.1	380.7	381.7	378.9
57.5°	341.9	341.0	345.7	342.9	339.1
60°	307.8	307.8	307.8	305.0	299.3
62.5°	274.7	272.8	271.8	265.2	262.4
65°	241.5	236.8	235.8	227.3	222.6
67.5°	206.5	204.6	199.8	191.3	182.8
70°	173.3	171.4	165.7	155.3	149.6
72.5°	143.0	141.1	133.5	121.2	113.7
75°	113.7	111.8	103.2	90.0	87.1
77.5°	86.2	85.2	76.7	70.1	69.1
80°	62.5	61.6	54.0	54.0	53.0
82.5°	39.8	39.8	37.9	38.8	39.8
85°	20.8	22.7	24.6	25.6	26.5
87.5°	6.6	10.4	12.3	13.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)