

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: P297689

Luminaire Tested: **D3X-WG-23L83050-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297689
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-23L83050-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: 2120.0 lumens
Efficiency: N/A
Efficacy: 102.9 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

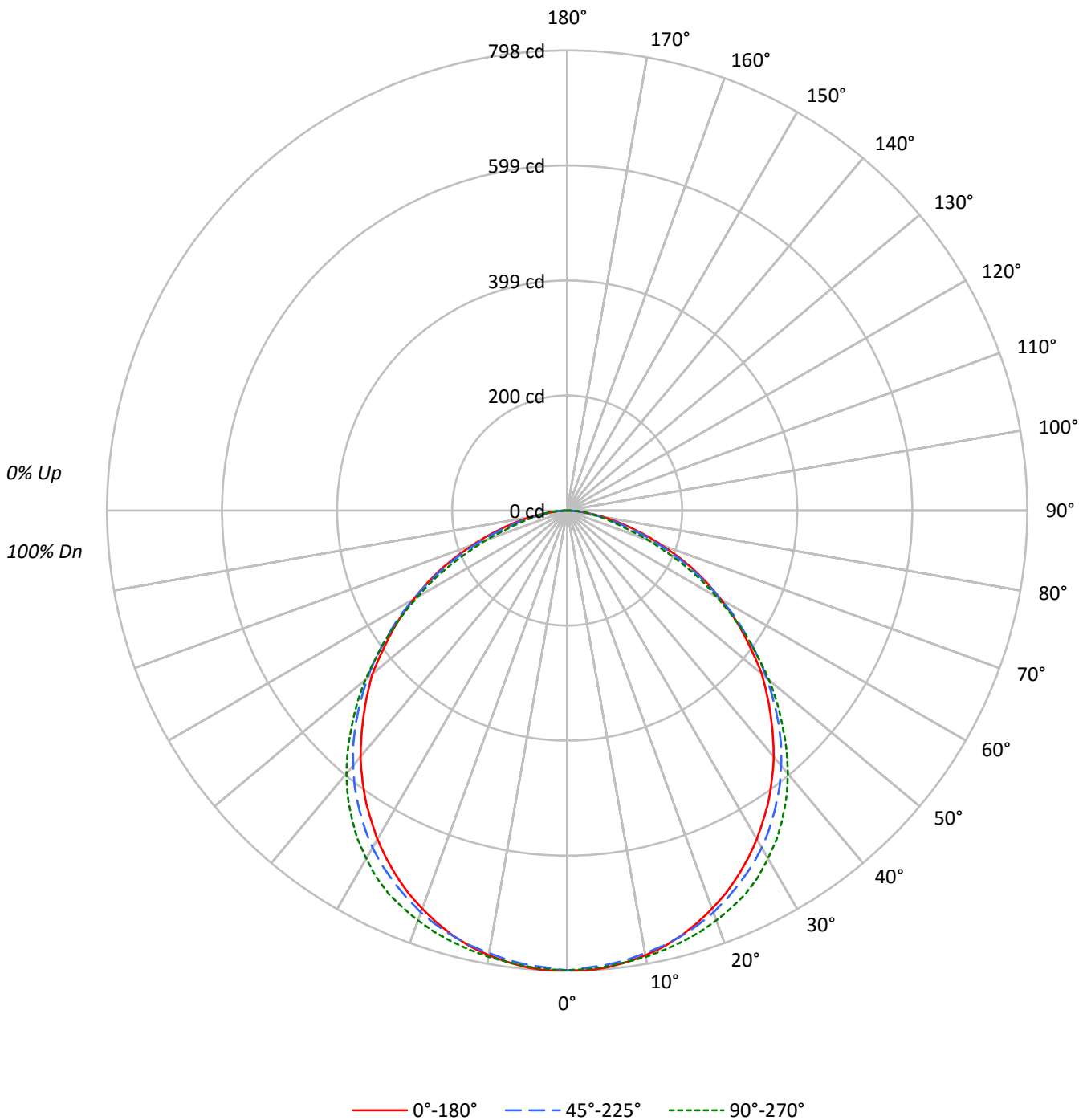
Input Watts (W): 20.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2146	2146	2146
5°	2149	2136	2143
10°	2140	2129	2147
15°	2126	2129	2155
20°	2104	2123	2166
25°	2077	2111	2176
30°	2044	2097	2165
35°	2006	2068	2140
40°	1958	2028	2092
45°	1898	1970	2010
50°	1845	1893	1913
55°	1752	1788	1779
60°	1658	1658	1612
65°	1539	1503	1419
70°	1365	1305	1179
75°	1183	1074	907
80°	970	837	823
85°	645	760	818



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.4	3.6
10°-20°	216.4	10.2
20°-30°	328.9	15.5
30°-40°	393.7	18.6
40°-50°	397.2	18.7
50°-60°	338.3	16.0
60°-70°	231.3	10.9
70°-80°	110.8	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°	620.6	29.3
0°-40°	1014.4	47.8
0°-60°	1749.9	82.5
0°-90°	2120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2120.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	797	797	797	797	797	
5°	795	794	791	794	794	76
15°	763	761	764	773	774	215
25°	700	701	711	727	733	322
35°	610	612	630	648	651	381
45°	499	502	518	528	528	385
55°	374	375	381	382	379	334
65°	242	237	236	228	223	238
75°	114	112	103	90	87	122
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°	797.3	797.3	797.3	797.3	797.3
2.5°	798.2	797.3	793.5	797.3	796.3
5°	795.4	794.4	790.7	794.4	793.5
7.5°	789.7	788.8	785.9	789.7	789.7
10°	783.1	781.2	779.3	785.0	785.9
12.5°	774.5	772.6	772.6	779.3	780.2
15°	763.2	761.3	764.1	772.6	773.6
17.5°	749.9	748.9	753.7	764.1	766.0
20°	734.7	733.8	741.4	753.7	756.5
22.5°	718.6	718.6	727.1	741.4	745.2
25°	699.6	700.6	711.0	727.1	732.8
27.5°	679.7	681.6	694.0	712.0	716.7
30°	657.9	660.8	675.0	692.1	696.8
32.5°	634.2	637.1	653.2	671.2	675.9
35°	610.5	612.4	629.5	647.5	651.3
37.5°	584.0	586.8	604.8	621.0	624.8
40°	557.4	560.3	577.3	592.5	595.4
42.5°	528.1	531.8	548.9	561.2	563.1
45°	498.7	502.5	517.6	528.1	528.1
47.5°	469.3	471.2	484.4	494.9	493.9
50°	440.8	439.9	452.2	457.0	457.0
52.5°	405.8	408.6	417.1	420.0	417.1
55°	373.5	375.4	381.1	382.1	379.2
57.5°	342.2	341.3	346.0	343.2	339.4
60°	308.1	308.1	308.1	305.3	299.6
62.5°	274.9	273.0	272.1	265.4	262.6
65°	241.7	237.0	236.1	227.5	222.8
67.5°	206.7	204.8	200.0	191.5	183.0
70°	173.5	171.6	165.9	155.5	149.8
72.5°	143.2	141.3	133.7	121.3	113.8
75°	113.8	111.9	103.3	90.1	87.2
77.5°	86.3	85.3	76.8	70.2	69.2
80°	62.6	61.6	54.0	54.0	53.1
82.5°	39.8	39.8	37.9	38.9	39.8
85°	20.9	22.8	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)