

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: P297714

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297714
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-2700K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2059.0 lumens
Efficiency: N/A
Efficacy: 100.0 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

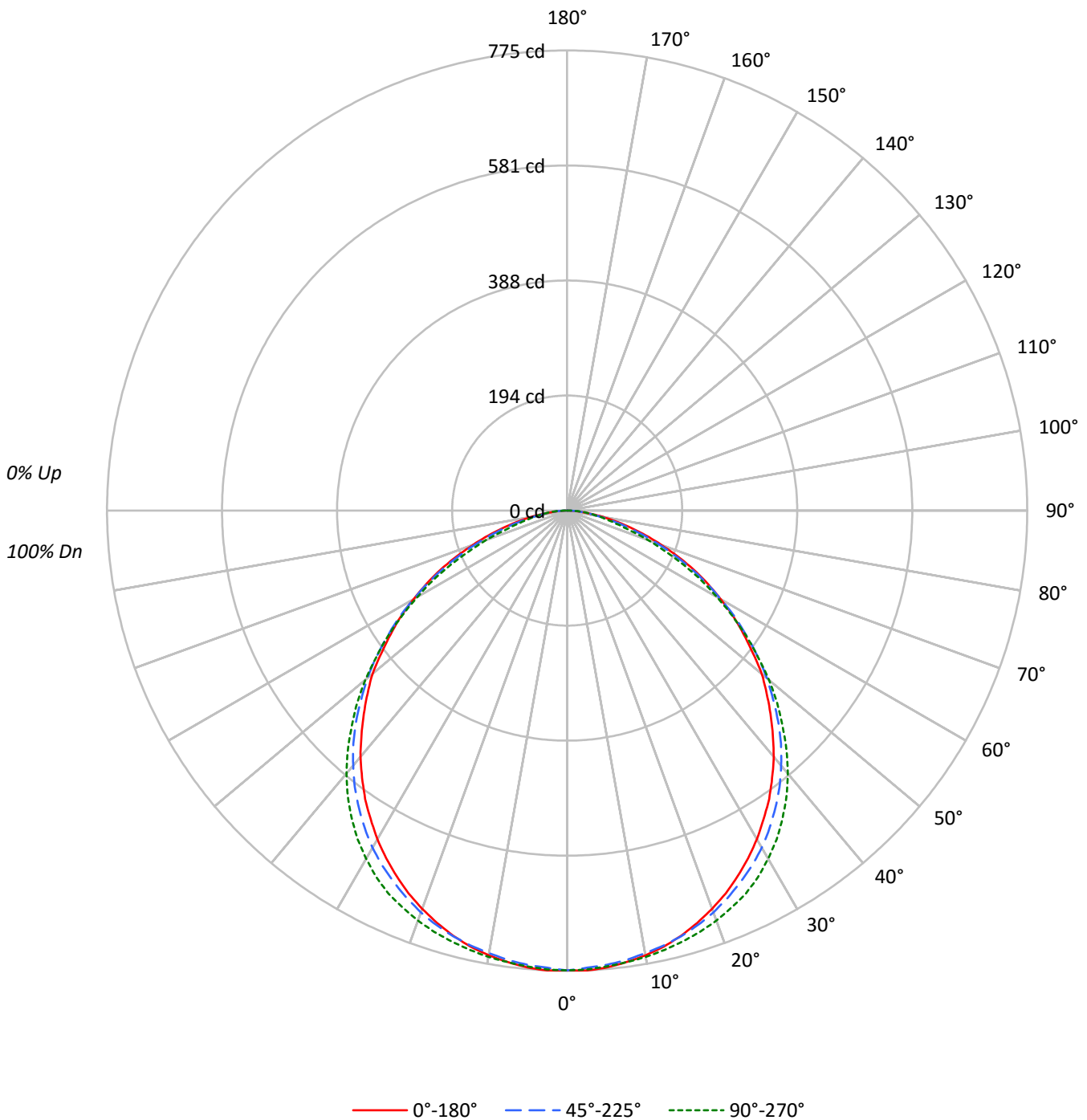
Input Watts (W): 20.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2084	2084	2084
5°	2087	2074	2082
10°	2078	2068	2086
15°	2065	2067	2093
20°	2044	2062	2104
25°	2018	2051	2113
30°	1986	2037	2103
35°	1948	2008	2078
40°	1902	1970	2031
45°	1843	1913	1952
50°	1792	1839	1858
55°	1702	1736	1728
60°	1610	1610	1566
65°	1495	1460	1378
70°	1326	1268	1145
75°	1149	1044	881
80°	942	814	800
85°	627	738	797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	3.6
10°-20°	210.2	10.2
20°-30°	319.4	15.5
30°-40°	382.4	18.6
40°-50°	385.7	18.7
50°-60°	328.6	16.0
60°-70°	224.7	10.9
70°-80°	107.6	5.2
80°-90°	27.2	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°	602.8	29.3
0°-40°	985.2	47.8
0°-60°	1699.5	82.5
0°-90°	2059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2059.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	772	772	768	772	771	73
15°	741	739	742	750	751	209
25°	680	680	691	706	712	313
35°	593	595	611	629	633	370
45°	484	488	503	513	513	374
55°	363	365	370	371	368	325
65°	235	230	229	221	216	232
75°	110	109	100	88	85	118
85°	20	22	24	25	26	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	774.4	774.4	774.4	774.4	774.4
2.5°	775.3	774.4	770.7	774.4	773.4
5°	772.5	771.6	767.9	771.6	770.7
7.5°	767.0	766.1	763.3	767.0	767.0
10°	760.5	758.7	756.9	762.4	763.3
12.5°	752.3	750.4	750.4	756.9	757.8
15°	741.2	739.4	742.1	750.4	751.3
17.5°	728.3	727.4	732.0	742.1	744.0
20°	713.6	712.7	720.0	732.0	734.8
22.5°	697.9	697.9	706.2	720.0	723.7
25°	679.5	680.4	690.6	706.2	711.7
27.5°	660.2	662.0	674.0	691.5	696.1
30°	639.0	641.8	655.6	672.1	676.8
32.5°	616.0	618.7	634.4	651.9	656.5
35°	593.0	594.8	611.4	628.9	632.6
37.5°	567.2	569.9	587.4	603.1	606.8
40°	541.4	544.2	560.7	575.5	578.2
42.5°	512.9	516.5	533.1	545.1	546.9
45°	484.3	488.0	502.7	512.9	512.9
47.5°	455.8	457.6	470.5	480.6	479.7
50°	428.1	427.2	439.2	443.8	443.8
52.5°	394.1	396.8	405.1	407.9	405.1
55°	362.8	364.6	370.1	371.1	368.3
57.5°	332.4	331.5	336.1	333.3	329.6
60°	299.2	299.2	299.2	296.5	291.0
62.5°	267.0	265.2	264.3	257.8	255.0
65°	234.8	230.2	229.3	221.0	216.4
67.5°	200.7	198.9	194.3	186.0	177.7
70°	168.5	166.7	161.1	151.0	145.5
72.5°	139.0	137.2	129.8	117.9	110.5
75°	110.5	108.6	100.4	87.5	84.7
77.5°	83.8	82.9	74.6	68.1	67.2
80°	60.8	59.8	52.5	52.5	51.6
82.5°	38.7	38.7	36.8	37.8	38.7
85°	20.3	22.1	23.9	24.9	25.8
87.5°	6.4	10.1	12.0	12.9	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)