

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: P298175

Luminaire Tested: **D3X-WG-20L82765-LD5-UNV-22-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-20L82765-LD5-UNV-22-T1-W2A-6500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1967.0 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

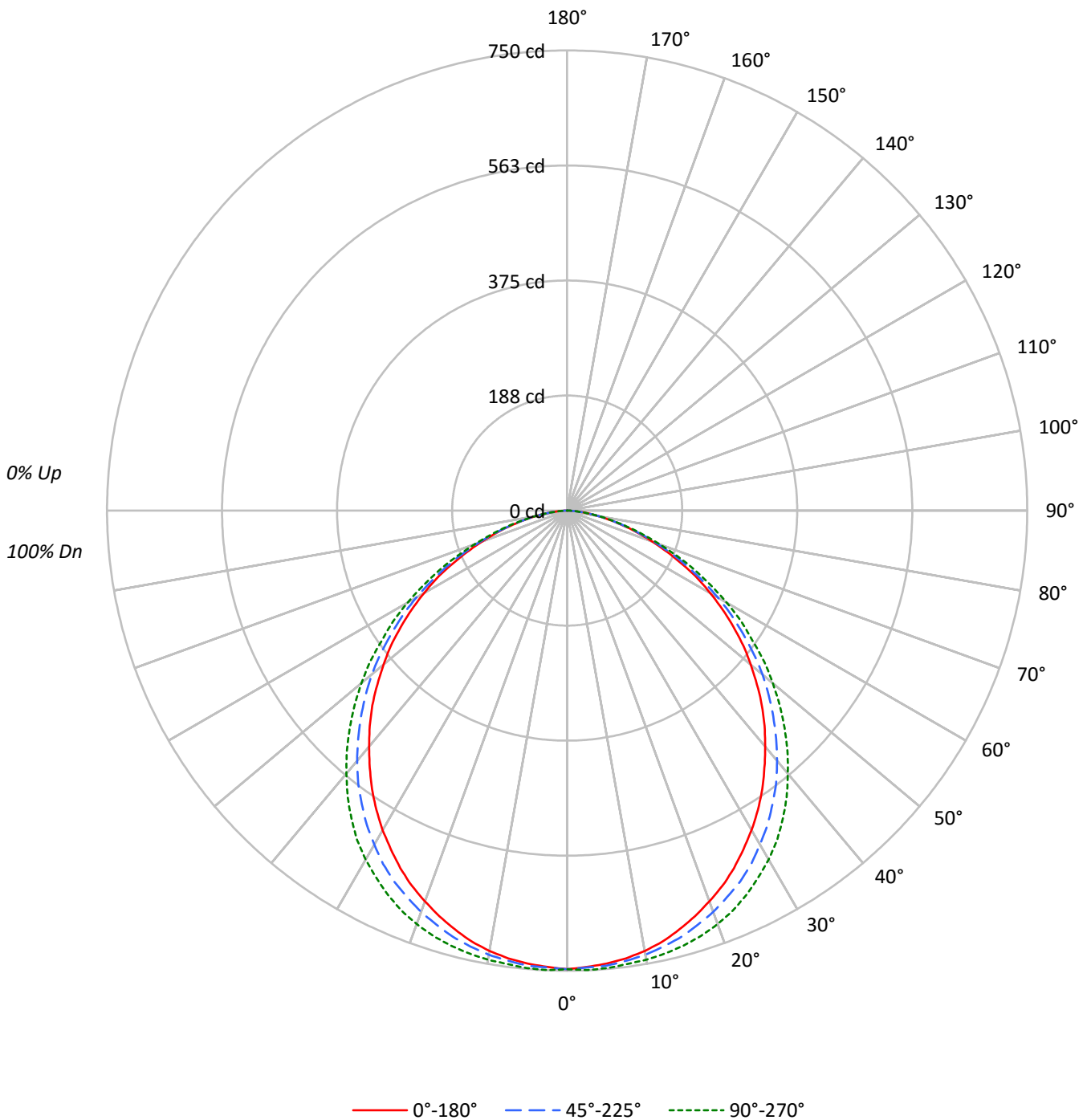
Input Watts (W): 16.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	86	80	97	90	84	79	87	82	77	83	79	76	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	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	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	47	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	28
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2012	2012	2012
5°	2002	2011	2022
10°	1991	2008	2031
15°	1969	2004	2045
20°	1940	1994	2054
25°	1909	1981	2052
30°	1868	1953	2041
35°	1821	1917	2013
40°	1764	1870	1966
45°	1708	1808	1907
50°	1635	1739	1831
55°	1552	1641	1729
60°	1450	1528	1618
65°	1323	1383	1463
70°	1158	1208	1257
75°	988	1010	1053
80°	793	809	824
85°	580	546	516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	3.6
10°-20°	203.1	10.3
20°-30°	307.0	15.6
30°-40°	364.6	18.5
40°-50°	366.1	18.6
50°-60°	312.7	15.9
60°-70°	215.4	11.0
70°-80°	104.5	5.3
80°-90°	22.9	1.2
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°	580.8	29.5
0°-40°	945.5	48.1
0°-60°	1624.3	82.6
0°-90°	1967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1967.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	748	748	748	748	748	
5°	741	741	744	746	748	70
15°	707	710	719	729	734	199
25°	643	648	667	685	691	296
35°	554	563	584	606	613	346
45°	449	455	475	495	501	346
55°	331	336	350	364	368	296
65°	208	208	217	226	230	206
75°	95	93	97	99	101	102
85°	19	19	18	17	17	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	747.5	747.5	747.5	747.5	747.5
2.5°	744.4	744.4	745.4	748.5	749.6
5°	741.2	741.2	744.4	746.5	748.5
7.5°	736.0	737.1	740.2	744.4	745.4
10°	728.7	729.8	735.0	740.2	743.3
12.5°	719.3	721.4	727.7	736.0	739.2
15°	706.8	709.9	719.3	728.7	733.9
17.5°	693.2	697.4	707.8	721.4	726.6
20°	677.6	682.8	696.3	711.0	717.2
22.5°	661.9	666.1	681.7	698.4	705.7
25°	643.1	648.3	667.1	684.9	691.1
27.5°	622.2	629.5	649.4	668.2	674.4
30°	601.3	607.6	628.5	649.4	656.7
32.5°	578.4	584.6	607.6	628.5	636.8
35°	554.4	562.7	583.6	605.5	612.8
37.5°	528.3	537.7	559.6	578.4	587.8
40°	502.2	510.5	532.4	552.3	559.6
42.5°	476.1	483.4	504.3	525.1	531.4
45°	448.9	455.2	475.0	494.9	501.1
47.5°	419.7	427.0	445.8	462.5	469.8
50°	390.5	397.8	415.5	431.2	437.4
52.5°	362.3	366.4	383.1	397.8	405.1
55°	330.9	336.2	349.7	364.4	368.5
57.5°	300.7	303.8	317.4	329.9	336.2
60°	269.4	271.4	284.0	293.4	300.7
62.5°	240.1	240.1	249.5	260.0	264.1
65°	207.8	207.8	217.2	226.5	229.7
67.5°	176.4	178.5	184.8	192.1	194.2
70°	147.2	147.2	153.5	158.7	159.7
72.5°	121.1	120.1	123.2	127.4	129.5
75°	95.0	92.9	97.1	99.2	101.3
77.5°	72.0	71.0	73.1	75.2	75.2
80°	51.2	50.1	52.2	52.2	53.2
82.5°	33.4	34.5	34.5	33.4	32.4
85°	18.8	18.8	17.7	16.7	16.7
87.5°	6.3	6.3	6.3	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)