

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: P298168

Luminaire Tested: **D3X-WG-20L82765-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298168
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-3000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1777.0 lumens
Efficiency: N/A
Efficacy: 116.1 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

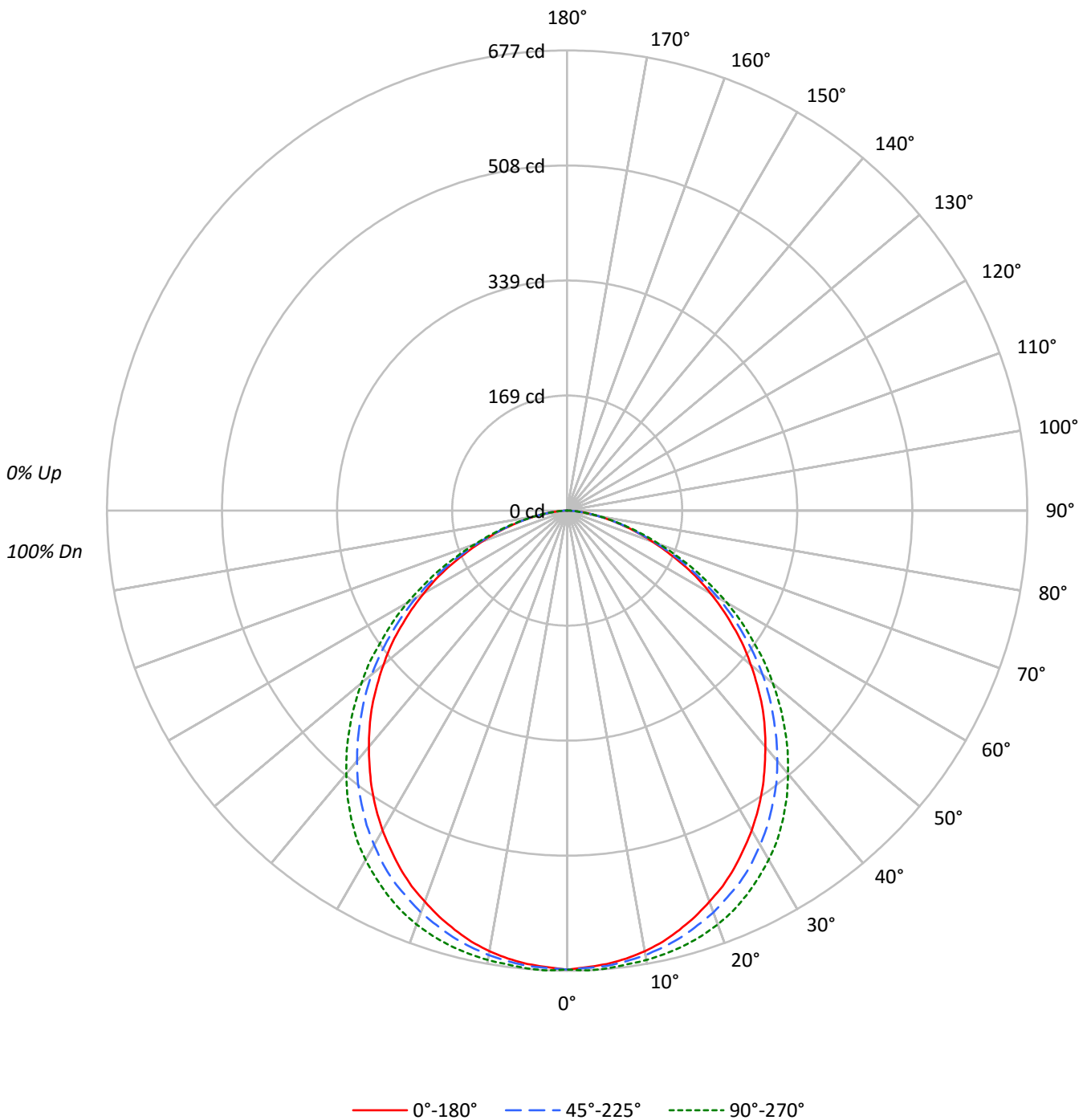
Input Watts (W): 15.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45					45			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32					32			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28					28			
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1817	1817	1817
5°	1809	1817	1827
10°	1799	1814	1835
15°	1779	1810	1847
20°	1753	1802	1855
25°	1725	1790	1854
30°	1688	1764	1843
35°	1645	1732	1819
40°	1594	1690	1776
45°	1544	1633	1723
50°	1477	1572	1654
55°	1403	1483	1562
60°	1309	1380	1462
65°	1195	1249	1321
70°	1046	1090	1135
75°	892	912	951
80°	716	731	745
85°	525	494	466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	3.6
10°-20°	183.5	10.3
20°-30°	277.3	15.6
30°-40°	329.4	18.5
40°-50°	330.7	18.6
50°-60°	282.5	15.9
60°-70°	194.6	11.0
70°-80°	94.4	5.3
80°-90°	20.7	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°	524.7	29.5
0°-40°	854.1	48.1
0°-60°	1467.3	82.6
0°-90°	1777.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1777.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	675	675	675	675	675	
5°	670	670	672	674	676	64
15°	638	641	650	658	663	180
25°	581	586	603	619	624	267
35°	501	508	527	547	554	313
45°	406	411	429	447	453	312
55°	299	304	316	329	333	267
65°	188	188	196	205	208	186
75°	86	84	88	90	92	92
85°	17	17	16	15	15	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	675.3	675.3	675.3	675.3	675.3
2.5°	672.5	672.5	673.4	676.2	677.2
5°	669.6	669.6	672.5	674.4	676.2
7.5°	664.9	665.9	668.7	672.5	673.4
10°	658.3	659.3	664.0	668.7	671.5
12.5°	649.8	651.7	657.4	664.9	667.8
15°	638.5	641.3	649.8	658.3	663.0
17.5°	626.3	630.0	639.5	651.7	656.4
20°	612.1	616.8	629.1	642.3	647.9
22.5°	598.0	601.7	615.9	631.0	637.6
25°	581.0	585.7	602.7	618.7	624.4
27.5°	562.1	568.7	586.6	603.6	609.3
30°	543.3	548.9	567.8	586.6	593.2
32.5°	522.5	528.2	548.9	567.8	575.3
35°	500.8	508.4	527.2	547.0	553.6
37.5°	477.2	485.7	505.5	522.5	531.0
40°	453.7	461.2	481.0	498.9	505.5
42.5°	430.1	436.7	455.5	474.4	480.1
45°	405.6	411.2	429.1	447.1	452.7
47.5°	379.1	385.8	402.7	417.8	424.4
50°	352.7	359.3	375.4	389.5	395.2
52.5°	327.3	331.0	346.1	359.3	365.9
55°	299.0	303.7	316.0	329.2	332.9
57.5°	271.6	274.5	286.7	298.0	303.7
60°	243.3	245.2	256.5	265.0	271.6
62.5°	216.9	216.9	225.4	234.8	238.6
65°	187.7	187.7	196.2	204.7	207.5
67.5°	159.4	161.3	166.9	173.5	175.4
70°	133.0	133.0	138.6	143.4	144.3
72.5°	109.4	108.5	111.3	115.1	117.0
75°	85.8	83.9	87.7	89.6	91.5
77.5°	65.1	64.1	66.0	67.9	67.9
80°	46.2	45.3	47.2	47.2	48.1
82.5°	30.2	31.1	31.1	30.2	29.2
85°	17.0	17.0	16.0	15.1	15.1
87.5°	5.7	5.7	5.7	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)