

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: P298337

Luminaire Tested: **D3X-WO-20L82765-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-20L82765-LD5-UNV-22-T1-W2A-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1959.0 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

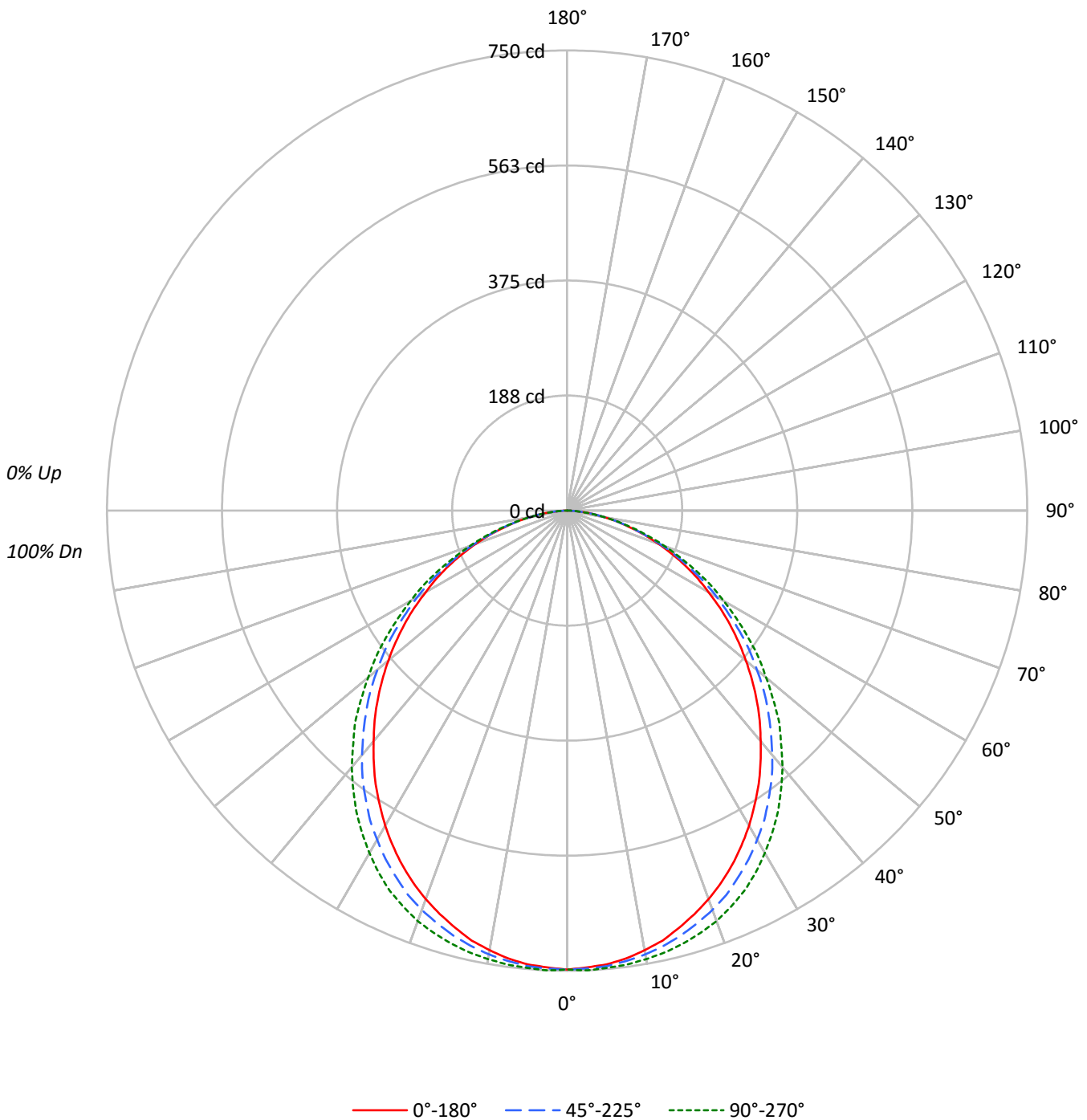
Input Watts (W): 15.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	84	72	63	57	81	70	62	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2013	2013	2013
5°	2005	2013	2021
10°	1988	2007	2028
15°	1962	1997	2035
20°	1930	1983	2039
25°	1891	1958	2030
30°	1843	1925	2003
35°	1788	1881	1967
40°	1723	1826	1919
45°	1663	1763	1860
50°	1593	1690	1772
55°	1519	1611	1688
60°	1433	1517	1586
65°	1354	1403	1472
70°	1243	1282	1327
75°	1105	1135	1167
80°	951	938	938
85°	722	664	602



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	3.6
10°-20°	202.3	10.3
20°-30°	303.7	15.5
30°-40°	357.5	18.2
40°-50°	356.5	18.2
50°-60°	305.9	15.6
60°-70°	219.1	11.2
70°-80°	116.0	5.9
80°-90°	27.1	1.4
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°	576.8	29.4
0°-40°	934.2	47.7
0°-60°	1596.7	81.5
0°-90°	1959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1959.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	748	748	748	748	748	
5°	742	742	745	747	748	70
15°	704	707	717	727	731	199
25°	637	643	659	676	684	293
35°	544	551	573	592	599	340
45°	437	444	463	480	489	337
55°	324	329	343	355	360	289
65°	213	214	220	229	231	210
75°	106	106	109	111	112	114
85°	23	22	22	20	20	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	748.1	748.1	748.1	748.1	748.1
2.5°	745.2	745.2	747.1	749.1	750.1
5°	742.3	742.3	745.2	747.1	748.1
7.5°	736.4	736.4	740.3	744.2	746.2
10°	727.6	729.6	734.5	740.3	742.3
12.5°	717.9	719.8	726.7	734.5	737.4
15°	704.2	707.2	716.9	726.7	730.6
17.5°	689.6	693.5	705.2	716.9	721.8
20°	674.0	677.9	692.5	706.2	712.0
22.5°	656.4	661.3	677.9	692.5	698.4
25°	636.9	642.8	659.4	675.9	683.7
27.5°	615.5	622.3	640.8	658.4	665.2
30°	593.0	600.8	619.4	637.9	644.7
32.5°	568.7	575.5	597.9	615.5	622.3
35°	544.3	551.1	572.6	592.1	598.9
37.5°	517.9	526.7	548.2	565.7	572.6
40°	490.6	499.4	519.9	540.4	546.2
42.5°	464.3	472.1	491.6	510.1	516.0
45°	437.0	443.8	463.3	479.9	488.7
47.5°	408.7	415.5	435.0	450.6	455.5
50°	380.4	387.2	403.8	417.5	423.3
52.5°	352.1	358.9	374.5	387.2	393.1
55°	323.8	328.7	343.3	355.0	359.9
57.5°	295.5	299.4	311.1	323.8	326.8
60°	266.3	271.2	281.9	290.7	294.6
62.5°	239.9	241.9	251.7	259.5	264.3
65°	212.6	213.6	220.4	229.2	231.2
67.5°	184.3	185.3	192.2	197.0	199.0
70°	158.0	158.0	162.9	166.8	168.7
72.5°	132.7	131.7	134.6	138.5	140.5
75°	106.3	106.3	109.2	111.2	112.2
77.5°	83.9	81.9	83.9	85.8	85.8
80°	61.4	60.5	60.5	61.4	60.5
82.5°	41.9	41.0	41.9	40.0	39.0
85°	23.4	22.4	21.5	19.5	19.5
87.5°	7.8	6.8	6.8	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)