

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: P298390

Luminaire Tested: **D3X-WO-20L93050-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298390
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-20L93050-LD5-UNV-22-T1-W2A-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1705.0 lumens
Efficiency: N/A
Efficacy: 108.6 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

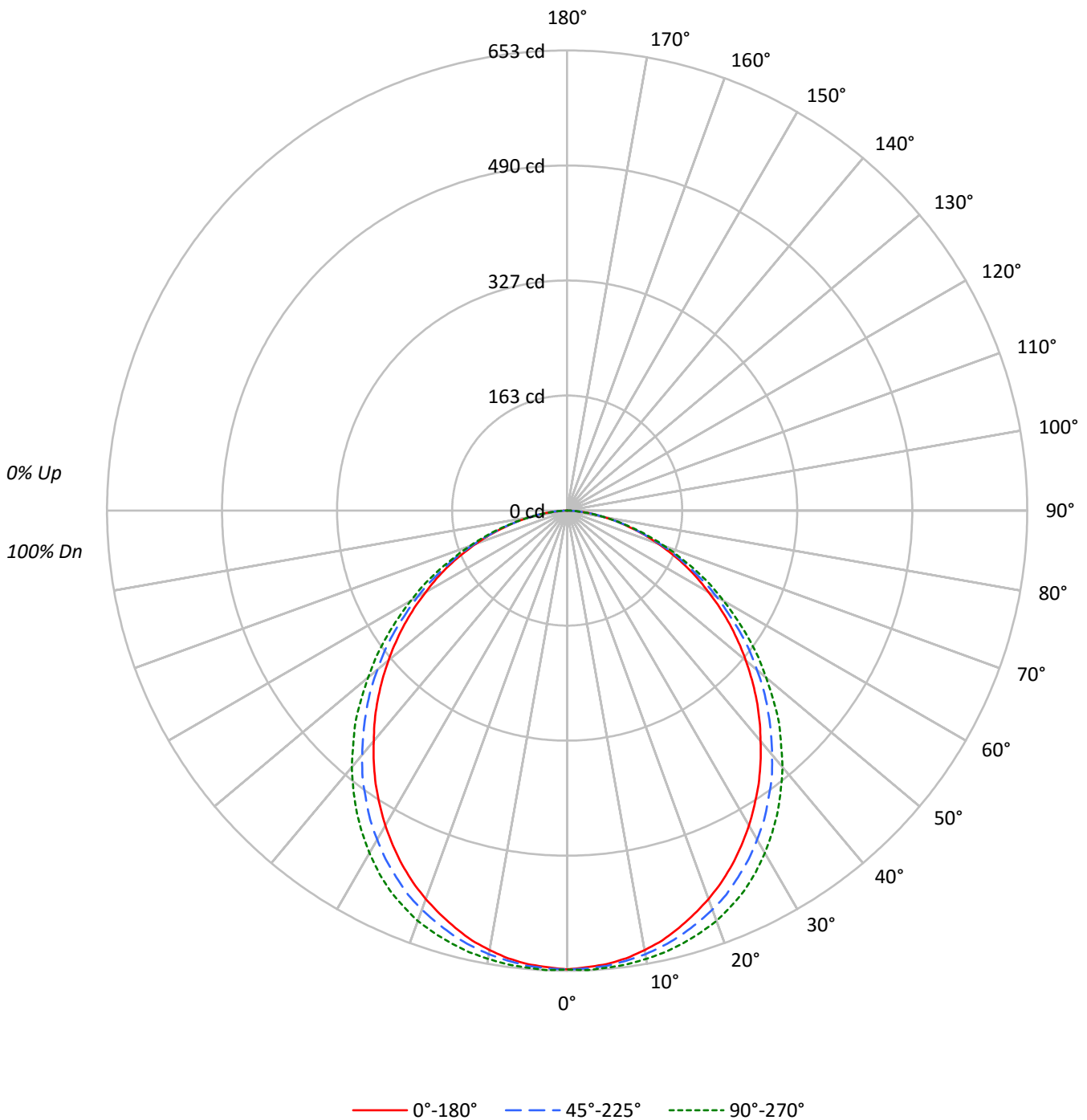
Input Watts (W): 15.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	70	62	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	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	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	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°	1752	1752	1752
5°	1745	1752	1759
10°	1730	1747	1765
15°	1707	1738	1771
20°	1680	1726	1775
25°	1646	1704	1767
30°	1604	1675	1743
35°	1556	1637	1712
40°	1500	1590	1670
45°	1447	1534	1619
50°	1386	1472	1542
55°	1322	1402	1470
60°	1248	1320	1380
65°	1179	1222	1281
70°	1082	1116	1156
75°	962	989	1015
80°	829	815	815
85°	630	577	525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.6	3.6
10°-20°	176.1	10.3
20°-30°	264.3	15.5
30°-40°	311.1	18.2
40°-50°	310.3	18.2
50°-60°	266.3	15.6
60°-70°	190.7	11.2
70°-80°	101.0	5.9
80°-90°	23.6	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°	502.0	29.4
0°-40°	813.1	47.7
0°-60°	1389.7	81.5
0°-90°	1705.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1705.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	651	651	651	651	651	
5°	646	646	649	650	651	61
15°	613	616	624	632	636	173
25°	554	559	574	588	595	255
35°	474	480	498	515	521	296
45°	380	386	403	418	425	293
55°	282	286	299	309	313	252
65°	185	186	192	200	201	183
75°	92	92	95	97	98	99
85°	20	20	19	17	17	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	651.1	651.1	651.1	651.1	651.1
2.5°	648.6	648.6	650.3	652.0	652.8
5°	646.0	646.0	648.6	650.3	651.1
7.5°	640.9	640.9	644.3	647.7	649.4
10°	633.3	635.0	639.2	644.3	646.0
12.5°	624.8	626.5	632.4	639.2	641.8
15°	612.9	615.5	624.0	632.4	635.8
17.5°	600.2	603.6	613.8	624.0	628.2
20°	586.6	590.0	602.7	614.6	619.7
22.5°	571.3	575.6	590.0	602.7	607.8
25°	554.3	559.4	573.9	588.3	595.1
27.5°	535.7	541.6	557.7	573.0	579.0
30°	516.1	522.9	539.1	555.2	561.1
32.5°	494.9	500.9	520.4	535.7	541.6
35°	473.7	479.6	498.3	515.3	521.2
37.5°	450.8	458.4	477.1	492.4	498.3
40°	427.0	434.6	452.5	470.3	475.4
42.5°	404.1	410.9	427.9	444.0	449.1
45°	380.3	386.3	403.2	417.7	425.3
47.5°	355.7	361.6	378.6	392.2	396.4
50°	331.1	337.0	351.5	363.3	368.4
52.5°	306.5	312.4	326.0	337.0	342.1
55°	281.8	286.1	298.8	309.0	313.3
57.5°	257.2	260.6	270.8	281.8	284.4
60°	231.8	236.0	245.3	253.0	256.4
62.5°	208.8	210.5	219.0	225.8	230.1
65°	185.1	185.9	191.9	199.5	201.2
67.5°	160.4	161.3	167.2	171.5	173.2
70°	137.5	137.5	141.8	145.2	146.9
72.5°	115.5	114.6	117.2	120.5	122.2
75°	92.5	92.5	95.1	96.8	97.6
77.5°	73.0	71.3	73.0	74.7	74.7
80°	53.5	52.6	52.6	53.5	52.6
82.5°	36.5	35.7	36.5	34.8	34.0
85°	20.4	19.5	18.7	17.0	17.0
87.5°	6.8	5.9	5.9	6.8	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)