

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: P298224

Luminaire Tested: **D3X-WG-20L93050-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298224
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-20L93050-LD5-UNV-22-T1-W2A-4500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1758.0 lumens
Efficiency: N/A
Efficacy: 109.2 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

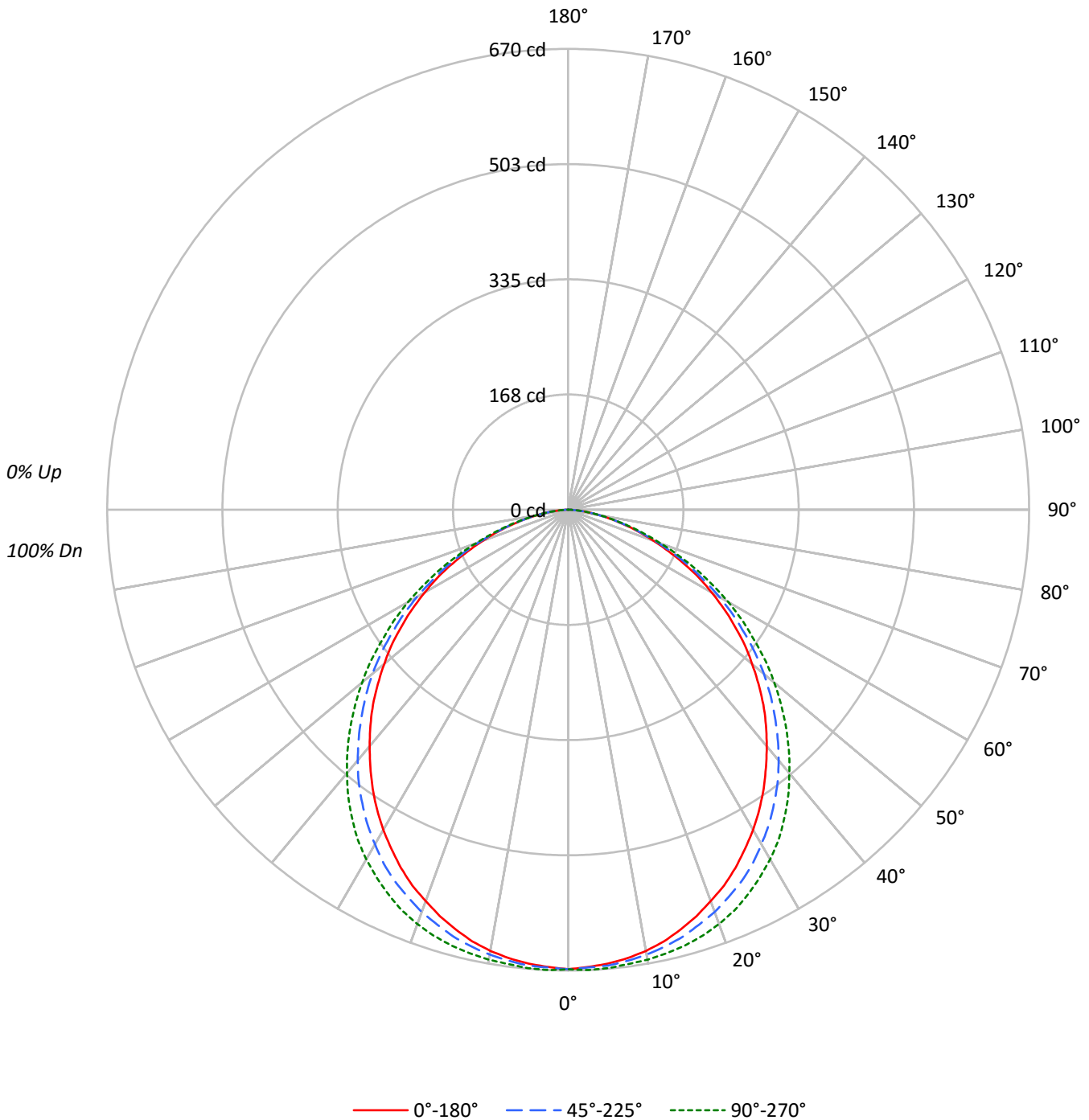
Input Watts (W): 16.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1798	1798	1798
5°	1790	1797	1807
10°	1780	1795	1815
15°	1760	1791	1828
20°	1734	1782	1836
25°	1707	1770	1834
30°	1670	1745	1824
35°	1628	1713	1799
40°	1577	1672	1757
45°	1527	1615	1705
50°	1461	1555	1637
55°	1388	1467	1545
60°	1295	1366	1446
65°	1182	1236	1307
70°	1035	1079	1124
75°	883	902	941
80°	708	724	738
85°	519	491	460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.2	3.6
10°-20°	181.5	10.3
20°-30°	274.4	15.6
30°-40°	325.9	18.5
40°-50°	327.2	18.6
50°-60°	279.5	15.9
60°-70°	192.6	11.0
70°-80°	93.4	5.3
80°-90°	20.4	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°	519.1	29.5
0°-40°	845.0	48.1
0°-60°	1451.7	82.6
0°-90°	1758.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1758.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	668	668	668	668	668	
5°	662	662	665	667	669	63
15°	632	634	643	651	656	178
25°	575	579	596	612	618	265
35°	496	503	522	541	548	309
45°	401	407	424	442	448	309
55°	296	300	313	326	329	264
65°	186	186	194	202	205	184
75°	85	83	87	89	90	91
85°	17	17	16	15	15	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	668.1	668.1	668.1	668.1	668.1
2.5°	665.3	665.3	666.2	669.0	669.9
5°	662.5	662.5	665.3	667.1	669.0
7.5°	657.8	658.7	661.5	665.3	666.2
10°	651.3	652.2	656.9	661.5	664.3
12.5°	642.9	644.8	650.4	657.8	660.6
15°	631.7	634.5	642.9	651.3	656.0
17.5°	619.6	623.3	632.6	644.8	649.4
20°	605.6	610.2	622.4	635.4	641.0
22.5°	591.6	595.3	609.3	624.2	630.8
25°	574.8	579.4	596.2	612.1	617.7
27.5°	556.1	562.6	580.4	597.2	602.8
30°	537.5	543.0	561.7	580.4	586.9
32.5°	516.9	522.5	543.0	561.7	569.2
35°	495.5	502.9	521.6	541.2	547.7
37.5°	472.1	480.5	500.1	516.9	525.3
40°	448.8	456.3	475.9	493.6	500.1
42.5°	425.5	432.0	450.7	469.3	474.9
45°	401.2	406.8	424.5	442.3	447.9
47.5°	375.1	381.6	398.4	413.4	419.9
50°	349.0	355.5	371.4	385.4	391.0
52.5°	323.8	327.5	342.4	355.5	362.0
55°	295.8	300.4	312.6	325.6	329.4
57.5°	268.7	271.5	283.7	294.9	300.4
60°	240.7	242.6	253.8	262.2	268.7
62.5°	214.6	214.6	223.0	232.3	236.1
65°	185.7	185.7	194.1	202.5	205.3
67.5°	157.7	159.6	165.2	171.7	173.6
70°	131.6	131.6	137.2	141.8	142.8
72.5°	108.2	107.3	110.1	113.8	115.7
75°	84.9	83.0	86.8	88.6	90.5
77.5°	64.4	63.4	65.3	67.2	67.2
80°	45.7	44.8	46.7	46.7	47.6
82.5°	29.9	30.8	30.8	29.9	28.9
85°	16.8	16.8	15.9	14.9	14.9
87.5°	5.6	5.6	5.6	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)