

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: P298229

Luminaire Tested: **D3X-WG-25L93050-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298229
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-25L93050-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: 2160.0 lumens
Efficiency: N/A
Efficacy: 109.6 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

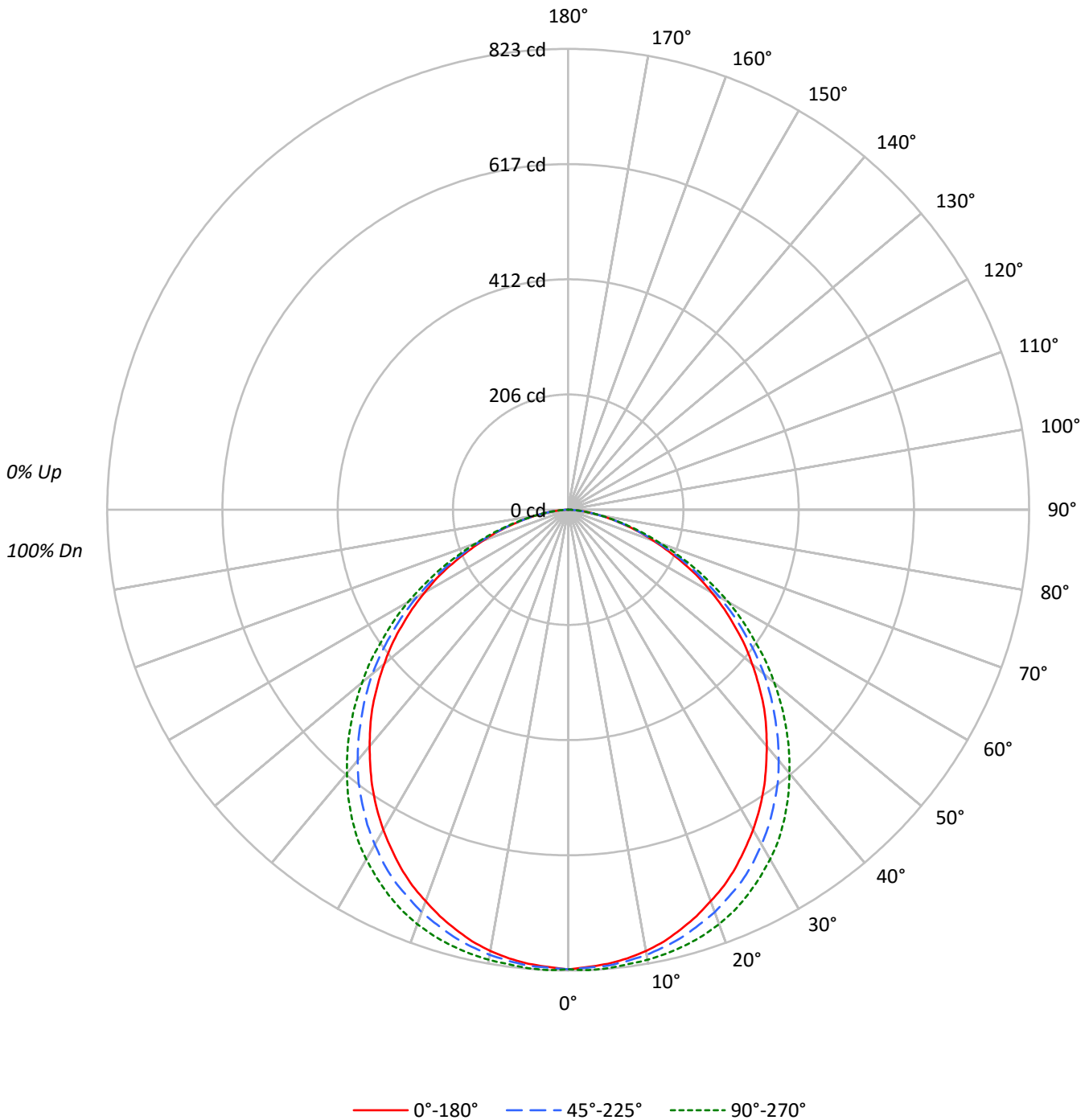
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2209	2209	2209
5°	2199	2208	2220
10°	2187	2205	2231
15°	2162	2201	2245
20°	2131	2190	2255
25°	2097	2175	2253
30°	2052	2145	2241
35°	2000	2105	2211
40°	1937	2054	2159
45°	1876	1985	2094
50°	1795	1910	2011
55°	1705	1802	1899
60°	1592	1678	1777
65°	1452	1519	1606
70°	1271	1326	1380
75°	1084	1108	1156
80°	871	888	907
85°	636	602	565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	3.6
10°-20°	223.0	10.3
20°-30°	337.1	15.6
30°-40°	400.4	18.5
40°-50°	402.0	18.6
50°-60°	343.4	15.9
60°-70°	236.6	11.0
70°-80°	114.7	5.3
80°-90°	25.1	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°	637.8	29.5
0°-40°	1038.2	48.1
0°-60°	1783.6	82.6
0°-90°	2160.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2160.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	821	821	821	821	821	
5°	814	814	817	820	822	77
15°	776	780	790	800	806	219
25°	706	712	733	752	759	325
35°	609	618	641	665	673	380
45°	493	500	522	543	550	379
55°	363	369	384	400	405	325
65°	228	228	238	249	252	226
75°	104	102	107	109	111	112
85°	21	21	20	18	18	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	820.8	820.8	820.8	820.8	820.8
2.5°	817.4	817.4	818.6	822.0	823.1
5°	814.0	814.0	817.4	819.7	822.0
7.5°	808.2	809.4	812.8	817.4	818.6
10°	800.2	801.4	807.1	812.8	816.3
12.5°	789.9	792.2	799.1	808.2	811.7
15°	776.1	779.6	789.9	800.2	805.9
17.5°	761.2	765.8	777.3	792.2	797.9
20°	744.0	749.8	764.7	780.7	787.6
22.5°	726.8	731.4	748.6	767.0	775.0
25°	706.2	711.9	732.6	752.1	758.9
27.5°	683.3	691.3	713.1	733.7	740.6
30°	660.3	667.2	690.2	713.1	721.1
32.5°	635.1	642.0	667.2	690.2	699.3
35°	608.8	617.9	640.9	664.9	673.0
37.5°	580.1	590.4	614.5	635.1	645.4
40°	551.4	560.6	584.7	606.5	614.5
42.5°	522.8	530.8	553.7	576.7	583.5
45°	493.0	499.8	521.6	543.4	550.3
47.5°	460.9	468.9	489.5	507.9	515.9
50°	428.8	436.8	456.3	473.5	480.4
52.5°	397.8	402.4	420.7	436.8	444.8
55°	363.4	369.2	384.1	400.1	404.7
57.5°	330.2	333.6	348.5	362.3	369.2
60°	295.8	298.1	311.8	322.1	330.2
62.5°	263.7	263.7	274.0	285.5	290.0
65°	228.1	228.1	238.5	248.8	252.2
67.5°	193.7	196.0	202.9	210.9	213.2
70°	161.6	161.6	168.5	174.3	175.4
72.5°	133.0	131.8	135.3	139.9	142.2
75°	104.3	102.0	106.6	108.9	111.2
77.5°	79.1	78.0	80.3	82.5	82.5
80°	56.2	55.0	57.3	57.3	58.5
82.5°	36.7	37.8	37.8	36.7	35.5
85°	20.6	20.6	19.5	18.3	18.3
87.5°	6.9	6.9	6.9	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)