

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: P298222

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298222
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-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1600.0 lumens
Efficiency: N/A
Efficacy: 101.9 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

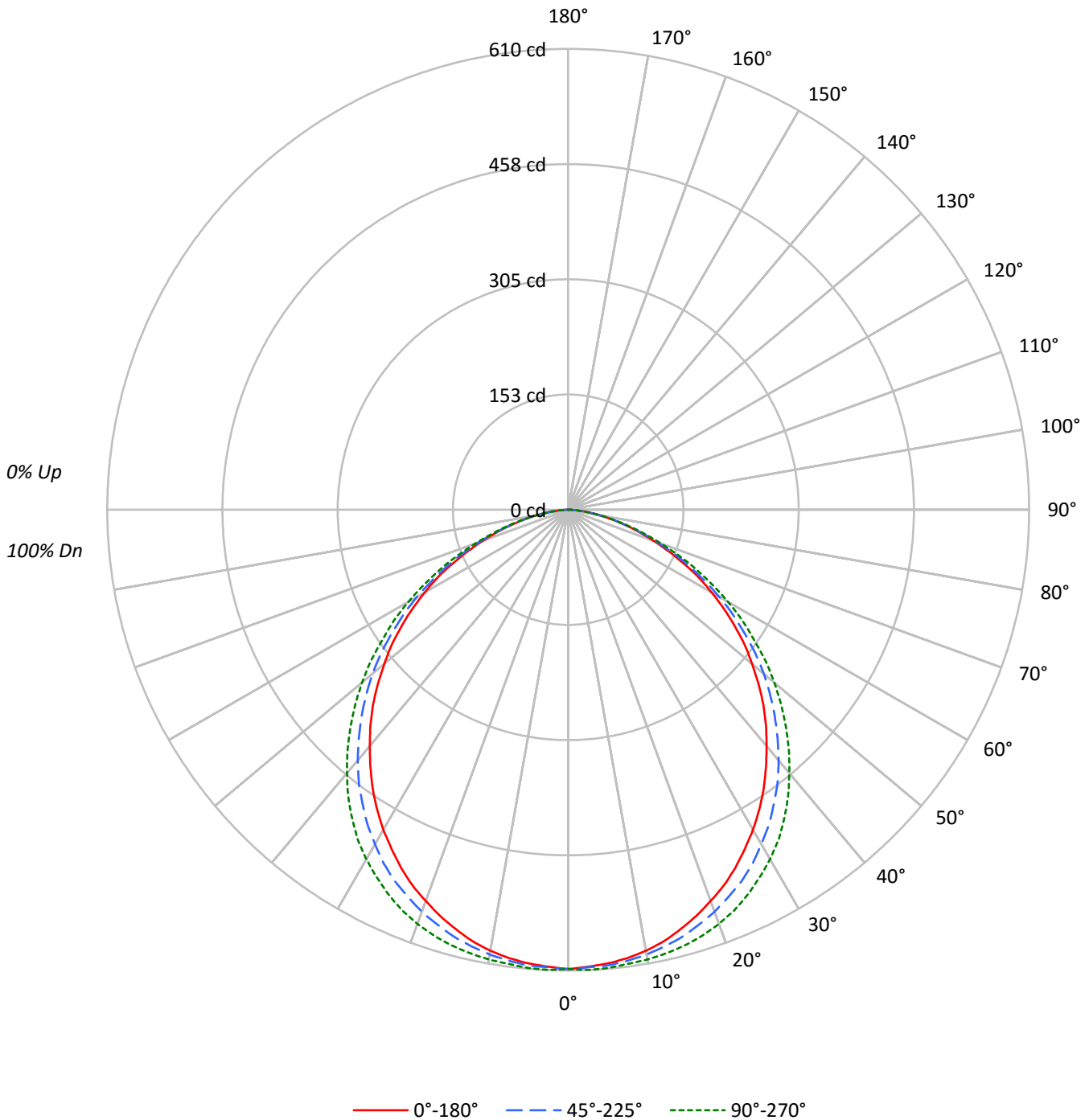
Input Watts (W): 15.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1636	1636	1636
5°	1629	1636	1645
10°	1620	1633	1652
15°	1602	1630	1663
20°	1578	1622	1671
25°	1553	1611	1669
30°	1520	1588	1660
35°	1481	1559	1638
40°	1435	1521	1599
45°	1390	1470	1551
50°	1330	1415	1490
55°	1263	1335	1407
60°	1179	1243	1316
65°	1076	1124	1189
70°	942	982	1022
75°	804	821	857
80°	645	659	671
85°	472	445	420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.6	3.6
10°-20°	165.2	10.3
20°-30°	249.7	15.6
30°-40°	296.6	18.5
40°-50°	297.8	18.6
50°-60°	254.4	15.9
60°-70°	175.2	11.0
70°-80°	85.0	5.3
80°-90°	18.6	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°	472.5	29.5
0°-40°	769.1	48.1
0°-60°	1321.2	82.6
0°-90°	1600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1600.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	608	608	608	608	608	
5°	603	603	606	607	609	57
15°	575	578	585	593	597	162
25°	523	527	543	557	562	241
35°	451	458	475	492	498	282
45°	365	370	386	402	408	281
55°	269	273	284	296	300	241
65°	169	169	177	184	187	167
75°	77	76	79	81	82	83
85°	15	15	14	14	14	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	608.0	608.0	608.0	608.0	608.0
2.5°	605.5	605.5	606.3	608.9	609.7
5°	602.9	602.9	605.5	607.2	608.9
7.5°	598.7	599.5	602.1	605.5	606.3
10°	592.8	593.6	597.8	602.1	604.6
12.5°	585.1	586.8	591.9	598.7	601.2
15°	574.9	577.5	585.1	592.8	597.0
17.5°	563.9	567.3	575.8	586.8	591.1
20°	551.1	555.4	566.4	578.3	583.4
22.5°	538.4	541.8	554.5	568.1	574.1
25°	523.1	527.4	542.6	557.1	562.2
27.5°	506.1	512.1	528.2	543.5	548.6
30°	489.1	494.2	511.2	528.2	534.2
32.5°	470.5	475.6	494.2	511.2	518.0
35°	450.9	457.7	474.7	492.5	498.5
37.5°	429.7	437.3	455.2	470.5	478.1
40°	408.5	415.3	433.1	449.2	455.2
42.5°	387.2	393.2	410.2	427.2	432.2
45°	365.2	370.3	386.4	402.5	407.6
47.5°	341.4	347.3	362.6	376.2	382.1
50°	317.6	323.6	338.0	350.7	355.8
52.5°	294.7	298.1	311.7	323.6	329.5
55°	269.2	273.4	284.5	296.4	299.8
57.5°	244.6	247.1	258.2	268.4	273.4
60°	219.1	220.8	231.0	238.6	244.6
62.5°	195.3	195.3	203.0	211.5	214.9
65°	169.0	169.0	176.6	184.3	186.8
67.5°	143.5	145.2	150.3	156.3	158.0
70°	119.7	119.7	124.8	129.1	129.9
72.5°	98.5	97.7	100.2	103.6	105.3
75°	77.3	75.6	79.0	80.7	82.4
77.5°	58.6	57.7	59.4	61.1	61.1
80°	41.6	40.8	42.5	42.5	43.3
82.5°	27.2	28.0	28.0	27.2	26.3
85°	15.3	15.3	14.4	13.6	13.6
87.5°	5.1	5.1	5.1	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)