

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: P298077

Luminaire Tested: **D3X-WD-40L93050-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-40L93050-LD5-UNV-22-T1-W2A-5000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3460.0 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

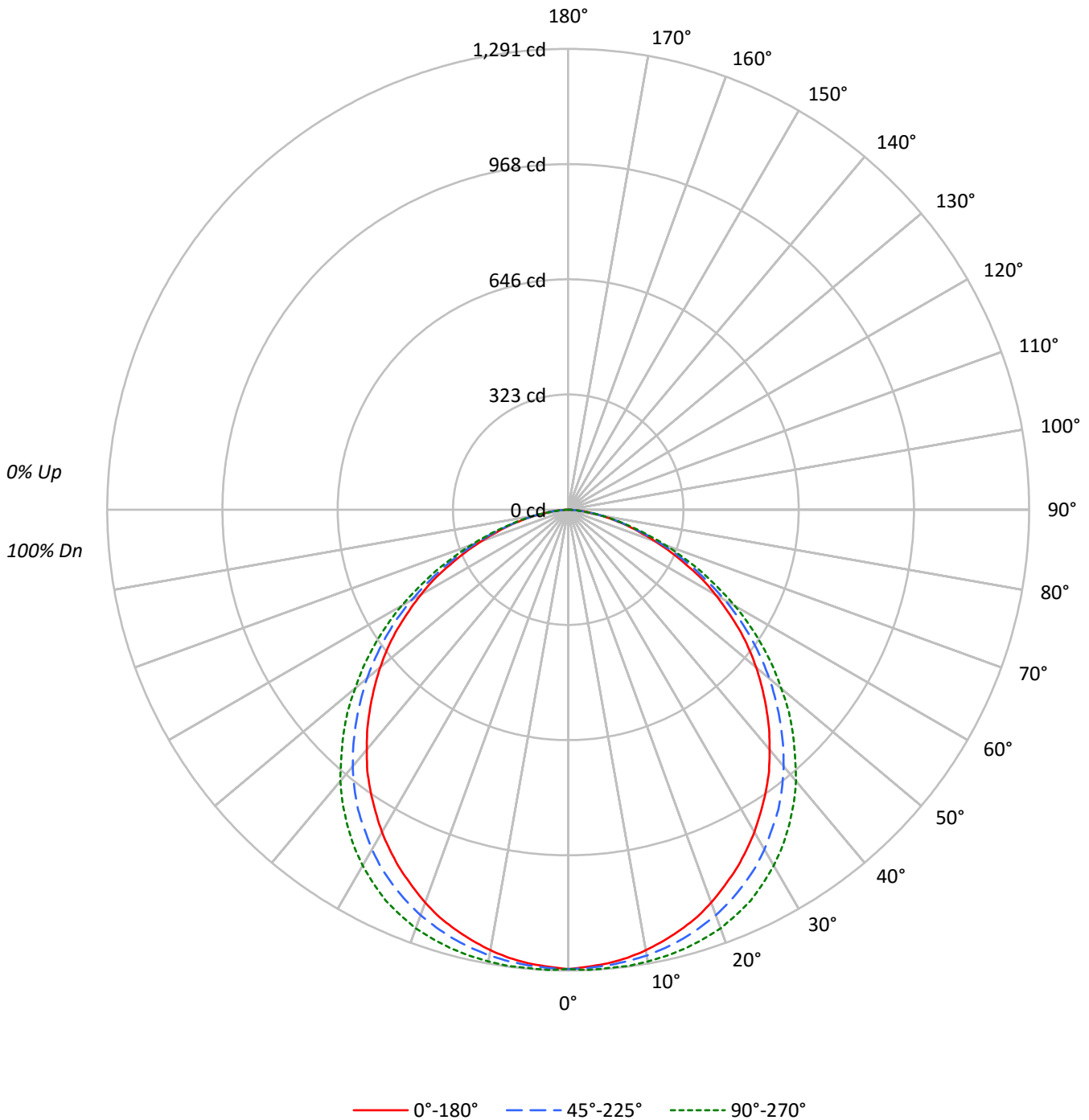
Input Watts (W): 33.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3463	3463	3463
5°	3446	3461	3481
10°	3425	3466	3512
15°	3393	3466	3544
20°	3355	3461	3573
25°	3301	3445	3589
30°	3241	3414	3576
35°	3169	3371	3542
40°	3081	3297	3487
45°	2984	3196	3388
50°	2877	3080	3259
55°	2744	2927	3111
60°	2566	2726	2907
65°	2324	2467	2621
70°	2051	2154	2271
75°	1762	1801	1879
80°	1415	1443	1472
85°	1034	920	920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.0	3.5
10°-20°	351.3	10.2
20°-30°	534.3	15.4
30°-40°	639.3	18.5
40°-50°	646.3	18.7
50°-60°	556.2	16.1
60°-70°	384.0	11.1
70°-80°	186.2	5.4
80°-90°	40.4	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°	1007.6	29.1
0°-40°	1646.9	47.6
0°-60°	2849.4	82.4
0°-90°	3460.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3460.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1287	1287	1287	1287	1287	
5°	1276	1278	1281	1287	1289	121
15°	1218	1226	1244	1263	1272	344
25°	1112	1125	1160	1196	1209	512
35°	965	982	1026	1063	1078	603
45°	784	799	840	875	890	605
55°	585	594	624	652	663	521
65°	365	371	387	404	412	363
75°	170	166	173	179	181	180
85°	34	34	30	30	30	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1286.9	1286.9	1286.9	1286.9	1286.9
2.5°	1281.3	1281.3	1285.1	1288.8	1290.6
5°	1275.7	1277.6	1281.3	1286.9	1288.8
7.5°	1266.4	1268.3	1275.7	1285.1	1288.8
10°	1253.4	1257.1	1268.3	1279.5	1285.1
12.5°	1236.6	1244.1	1257.1	1272.0	1279.5
15°	1218.0	1225.5	1244.1	1262.7	1272.0
17.5°	1197.5	1205.0	1227.3	1251.5	1260.8
20°	1171.4	1182.6	1208.7	1236.6	1247.8
22.5°	1141.6	1156.5	1186.3	1216.1	1229.2
25°	1111.9	1124.9	1160.3	1195.7	1208.7
27.5°	1078.3	1093.2	1132.3	1167.7	1180.8
30°	1042.9	1057.8	1098.8	1137.9	1151.0
32.5°	1003.8	1022.5	1061.6	1102.5	1117.4
35°	964.7	981.5	1026.2	1063.4	1078.3
37.5°	923.7	938.6	983.3	1022.5	1037.4
40°	877.2	894.0	938.6	977.8	992.7
42.5°	832.5	849.3	890.2	927.5	940.5
45°	784.1	799.0	839.9	875.3	890.2
47.5°	735.6	752.4	787.8	823.2	838.1
50°	687.2	700.3	735.6	769.2	778.5
52.5°	636.9	648.1	679.8	709.6	722.6
55°	584.8	594.1	623.9	651.8	663.0
57.5°	528.9	540.1	568.0	588.5	601.6
60°	476.8	482.4	506.6	527.1	540.1
62.5°	424.6	426.5	445.1	465.6	473.0
65°	365.0	370.6	387.4	404.1	411.6
67.5°	311.0	316.6	329.6	342.7	348.3
70°	260.7	260.7	273.8	283.1	288.7
72.5°	210.5	212.3	221.6	227.2	232.8
75°	169.5	165.8	173.2	178.8	180.7
77.5°	126.6	124.8	130.4	132.2	136.0
80°	91.3	91.3	93.1	95.0	95.0
82.5°	59.6	59.6	61.5	57.7	55.9
85°	33.5	33.5	29.8	29.8	29.8
87.5°	11.2	11.2	11.2	13.0	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)