

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: P298128

Luminaire Tested: **D3X-WD-44L92765-LD5-UNV-22-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298128
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-44L92765-LD5-UNV-22-T1-W2A-2700K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3179.0 lumens
Efficiency: N/A
Efficacy: 89.5 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

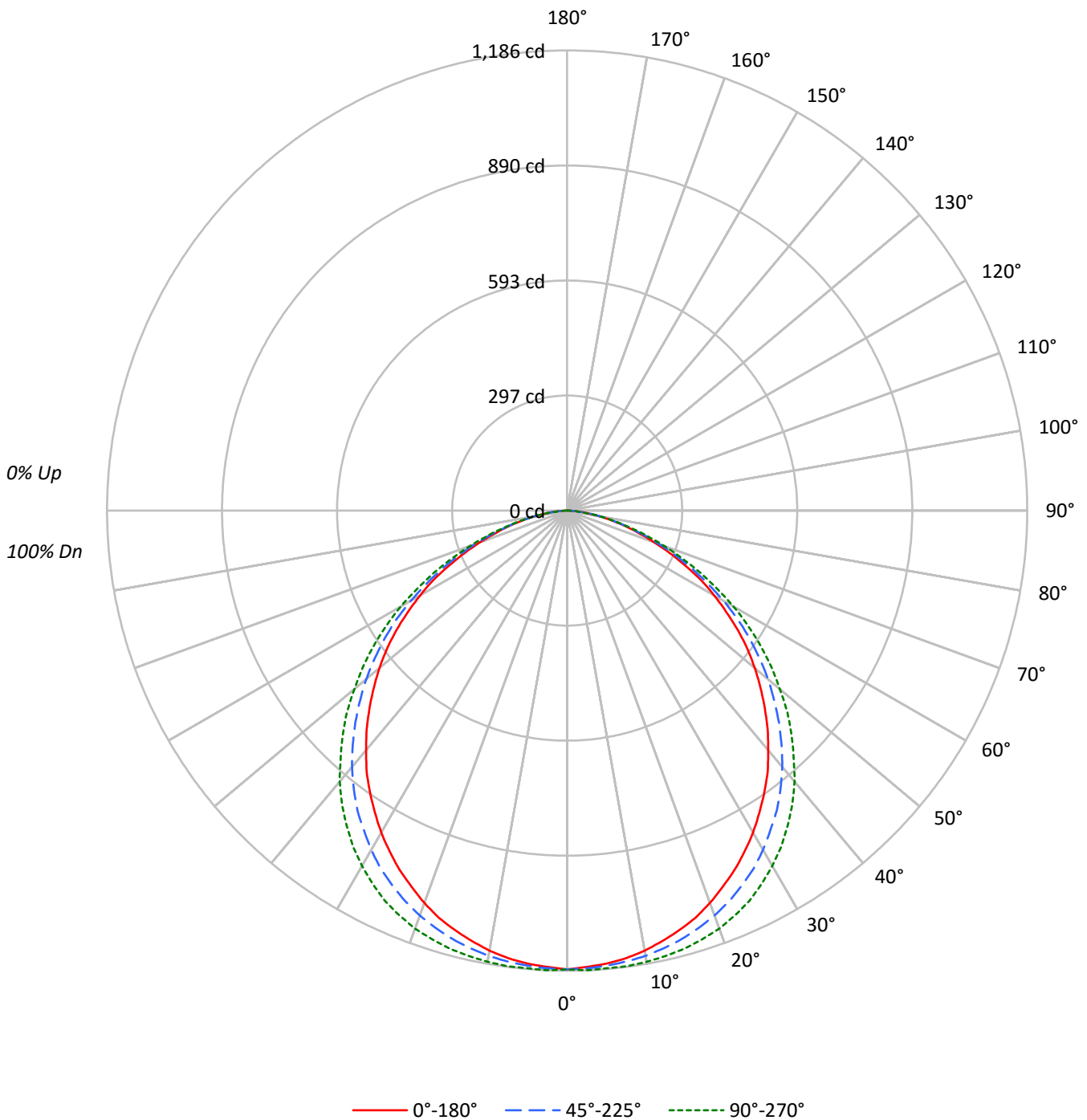
Input Watts (W): 35.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3182	3182	3182
5°	3166	3180	3199
10°	3147	3184	3226
15°	3118	3184	3256
20°	3082	3180	3283
25°	3033	3165	3297
30°	2977	3137	3286
35°	2912	3097	3255
40°	2831	3029	3204
45°	2742	2937	3113
50°	2643	2830	2995
55°	2521	2689	2858
60°	2358	2505	2671
65°	2136	2266	2408
70°	1885	1979	2087
75°	1619	1654	1726
80°	1299	1327	1353
85°	951	846	846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	3.5
10°-20°	322.8	10.2
20°-30°	490.9	15.4
30°-40°	587.4	18.5
40°-50°	593.8	18.7
50°-60°	511.0	16.1
60°-70°	352.8	11.1
70°-80°	171.1	5.4
80°-90°	37.1	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°	925.8	29.1
0°-40°	1513.2	47.6
0°-60°	2618.0	82.4
0°-90°	3179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3179.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1182	1182	1182	1182	1182	
5°	1172	1174	1177	1182	1184	111
15°	1119	1126	1143	1160	1169	316
25°	1022	1034	1066	1099	1110	470
35°	886	902	943	977	991	554
45°	720	734	772	804	818	556
55°	537	546	573	599	609	479
65°	335	340	356	371	378	334
75°	156	152	159	164	166	165
85°	31	31	27	27	27	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1182.4	1182.4	1182.4	1182.4	1182.4
2.5°	1177.3	1177.3	1180.7	1184.1	1185.8
5°	1172.1	1173.8	1177.3	1182.4	1184.1
7.5°	1163.6	1165.3	1172.1	1180.7	1184.1
10°	1151.6	1155.0	1165.3	1175.6	1180.7
12.5°	1136.2	1143.0	1155.0	1168.7	1175.6
15°	1119.1	1125.9	1143.0	1160.2	1168.7
17.5°	1100.3	1107.1	1127.6	1149.9	1158.4
20°	1076.3	1086.6	1110.5	1136.2	1146.5
22.5°	1048.9	1062.6	1090.0	1117.4	1129.4
25°	1021.6	1033.5	1066.0	1098.6	1110.5
27.5°	990.8	1004.4	1040.4	1072.9	1084.9
30°	958.2	971.9	1009.6	1045.5	1057.5
32.5°	922.3	939.4	975.4	1013.0	1026.7
35°	886.4	901.8	942.8	977.1	990.8
37.5°	848.7	862.4	903.5	939.4	953.1
40°	805.9	821.3	862.4	898.4	912.0
42.5°	764.9	780.3	817.9	852.2	864.1
45°	720.4	734.1	771.7	804.2	817.9
47.5°	675.9	691.3	723.8	756.3	770.0
50°	631.4	643.4	675.9	706.7	715.3
52.5°	585.2	595.5	624.6	651.9	663.9
55°	537.3	545.9	573.2	598.9	609.2
57.5°	486.0	496.2	521.9	540.7	552.7
60°	438.1	443.2	465.4	484.3	496.2
62.5°	390.1	391.9	409.0	427.8	434.6
65°	335.4	340.5	355.9	371.3	378.2
67.5°	285.8	290.9	302.9	314.9	320.0
70°	239.6	239.6	251.5	260.1	265.2
72.5°	193.4	195.1	203.6	208.8	213.9
75°	155.7	152.3	159.1	164.3	166.0
77.5°	116.4	114.6	119.8	121.5	124.9
80°	83.8	83.8	85.6	87.3	87.3
82.5°	54.8	54.8	56.5	53.0	51.3
85°	30.8	30.8	27.4	27.4	27.4
87.5°	10.3	10.3	10.3	12.0	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)