

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: P298242

Luminaire Tested: **D3X-WG-40L93050-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298242
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-40L93050-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: 3193.0 lumens
Efficiency: N/A
Efficacy: 97.6 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

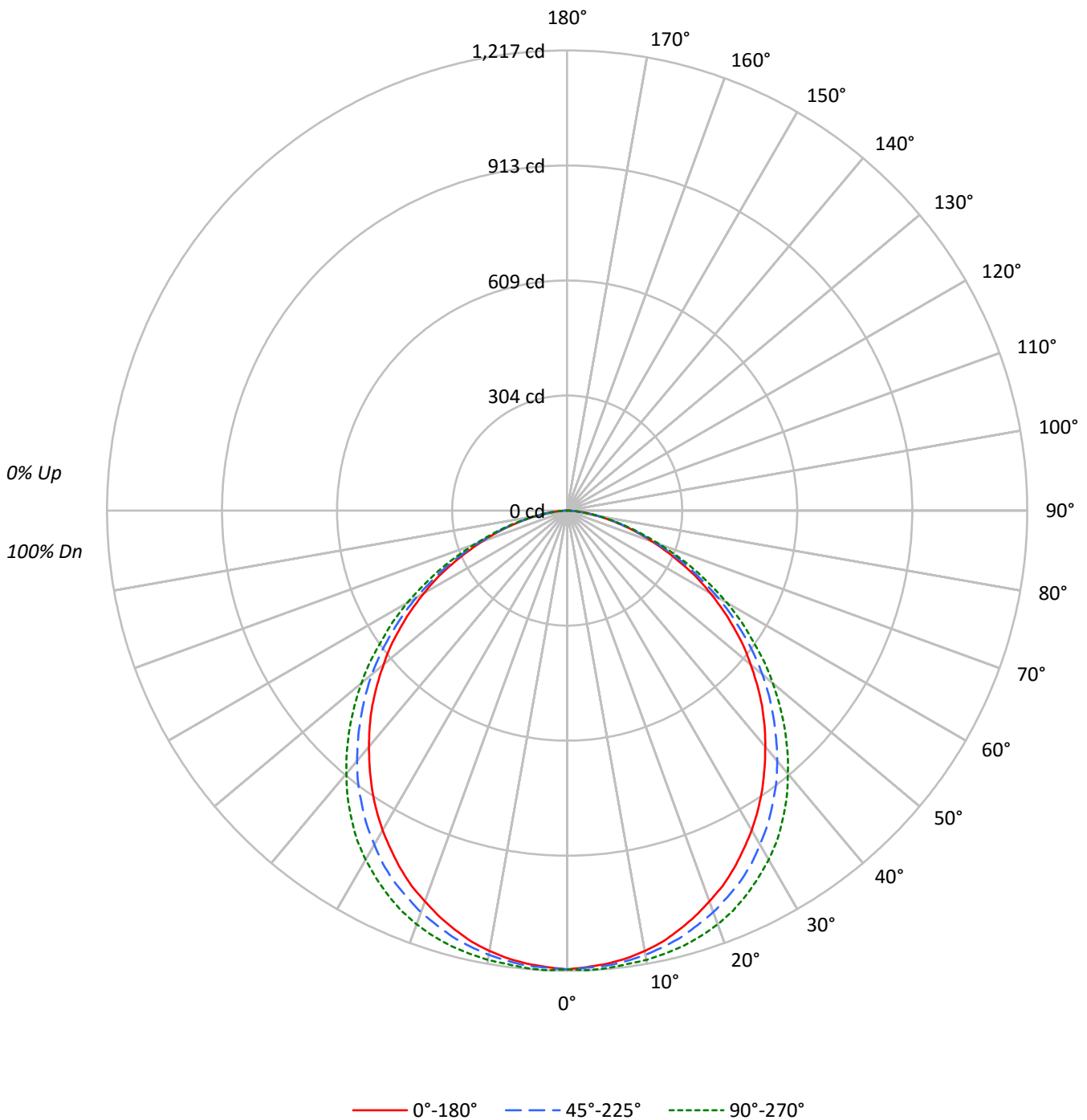
Input Watts (W): 32.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3265	3265	3265
5°	3250	3264	3282
10°	3232	3260	3297
15°	3196	3253	3319
20°	3150	3237	3334
25°	3100	3215	3331
30°	3033	3170	3312
35°	2956	3112	3268
40°	2864	3036	3191
45°	2773	2935	3096
50°	2653	2824	2973
55°	2520	2663	2807
60°	2353	2481	2627
65°	2147	2245	2374
70°	1880	1960	2040
75°	1603	1639	1709
80°	1286	1313	1339
85°	942	889	837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	3.6
10°-20°	329.6	10.3
20°-30°	498.3	15.6
30°-40°	591.9	18.5
40°-50°	594.3	18.6
50°-60°	507.6	15.9
60°-70°	349.7	11.0
70°-80°	169.6	5.3
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°	942.8	29.5
0°-40°	1534.8	48.1
0°-60°	2636.6	82.6
0°-90°	3193.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3193.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1213	1213	1213	1213	1213	
5°	1203	1203	1208	1212	1215	114
15°	1147	1152	1168	1183	1191	323
25°	1044	1052	1083	1112	1122	480
35°	900	913	947	983	995	562
45°	729	739	771	803	814	561
55°	537	546	568	592	598	480
65°	337	337	352	368	373	334
75°	154	151	158	161	164	166
85°	30	30	29	27	27	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1213.4	1213.4	1213.4	1213.4	1213.4
2.5°	1208.3	1208.3	1210.0	1215.1	1216.8
5°	1203.2	1203.2	1208.3	1211.7	1215.1
7.5°	1194.8	1196.5	1201.6	1208.3	1210.0
10°	1182.9	1184.6	1193.1	1201.6	1206.6
12.5°	1167.7	1171.0	1181.2	1194.8	1199.9
15°	1147.3	1152.4	1167.7	1182.9	1191.4
17.5°	1125.3	1132.1	1149.0	1171.0	1179.5
20°	1099.9	1108.3	1130.4	1154.1	1164.3
22.5°	1074.4	1081.2	1106.6	1133.8	1145.6
25°	1043.9	1052.4	1082.9	1111.7	1121.9
27.5°	1010.0	1021.9	1054.1	1084.6	1094.8
30°	976.2	986.3	1020.2	1054.1	1066.0
32.5°	938.9	949.0	986.3	1020.2	1033.8
35°	899.9	913.4	947.3	982.9	994.8
37.5°	857.5	872.8	908.4	938.9	954.1
40°	815.2	828.7	864.3	896.5	908.4
42.5°	772.8	784.7	818.5	852.4	862.6
45°	728.7	738.9	771.1	803.3	813.5
47.5°	681.3	693.1	723.6	750.8	762.6
50°	633.8	645.7	674.5	699.9	710.1
52.5°	588.1	594.8	622.0	645.7	657.5
55°	537.2	545.7	567.7	591.5	598.2
57.5°	488.1	493.2	515.2	535.5	545.7
60°	437.2	440.6	461.0	476.2	488.1
62.5°	389.8	389.8	405.0	422.0	428.8
65°	337.2	337.2	352.5	367.8	372.8
67.5°	286.4	289.8	300.0	311.8	315.2
70°	239.0	239.0	249.1	257.6	259.3
72.5°	196.6	194.9	200.0	206.8	210.1
75°	154.2	150.8	157.6	161.0	164.4
77.5°	116.9	115.2	118.6	122.0	122.0
80°	83.0	81.3	84.7	84.7	86.4
82.5°	54.2	55.9	55.9	54.2	52.5
85°	30.5	30.5	28.8	27.1	27.1
87.5°	10.2	10.2	10.2	11.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)