

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: P298156

Luminaire Tested: **D3X-WG-35L83050-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298156
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-35L83050-LD5-UNV-22-T1-W2A-5000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3521.0 lumens
Efficiency: N/A
Efficacy: 120.2 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

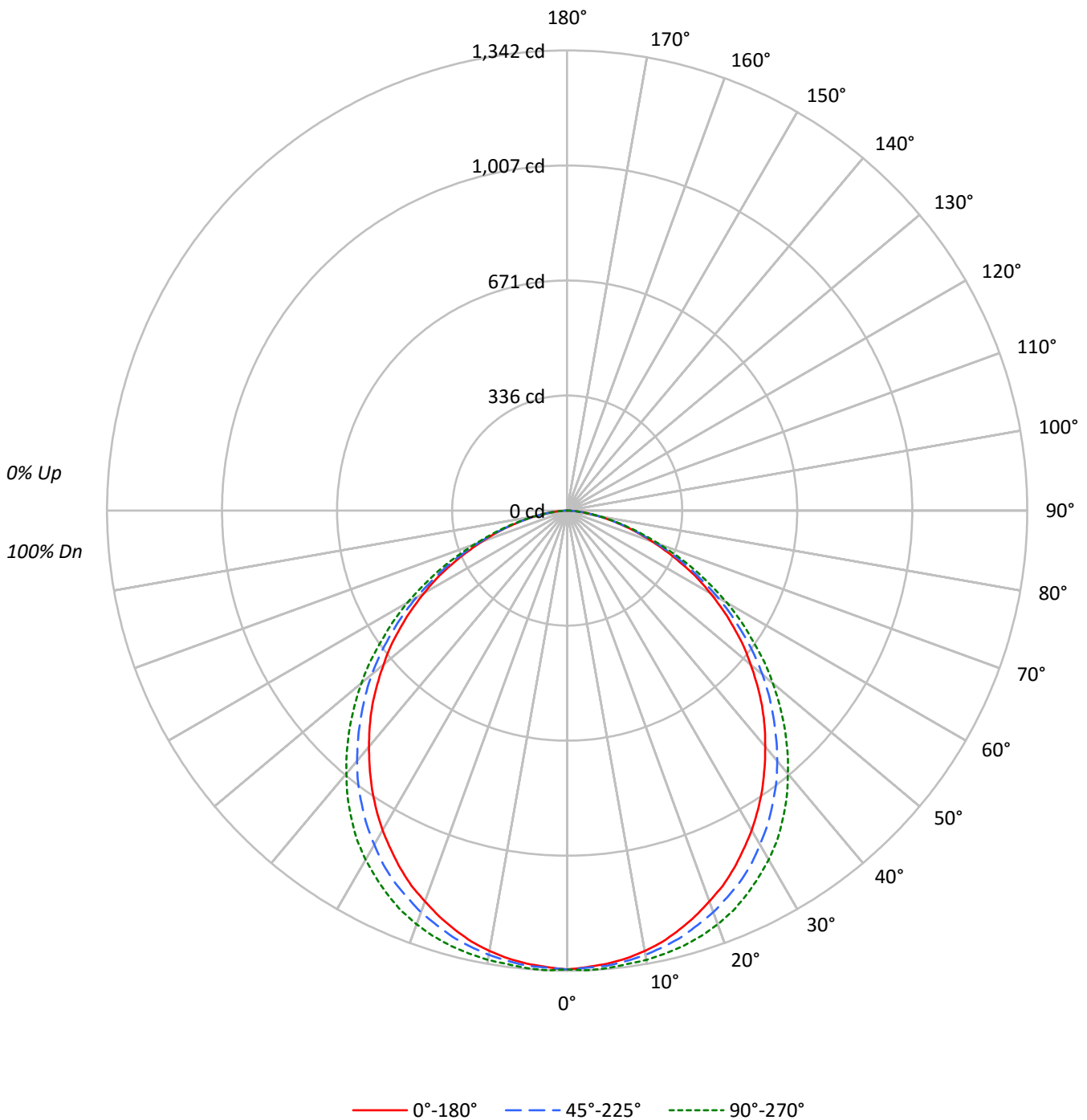
Input Watts (W): 29.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3601	3601	3601
5°	3584	3599	3619
10°	3564	3595	3636
15°	3525	3587	3660
20°	3473	3570	3677
25°	3418	3546	3673
30°	3345	3496	3653
35°	3260	3432	3604
40°	3158	3348	3519
45°	3058	3236	3414
50°	2926	3114	3278
55°	2779	2937	3095
60°	2595	2736	2897
65°	2368	2475	2618
70°	2073	2161	2249
75°	1769	1807	1885
80°	1420	1447	1477
85°	1037	982	923



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	3.6
10°-20°	363.5	10.3
20°-30°	549.5	15.6
30°-40°	652.7	18.5
40°-50°	655.3	18.6
50°-60°	559.7	15.9
60°-70°	385.6	11.0
70°-80°	187.0	5.3
80°-90°	40.9	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°	1039.7	29.5
0°-40°	1692.4	48.1
0°-60°	2907.4	82.6
0°-90°	3521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3521.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1338	1338	1338	1338	1338	
5°	1327	1327	1332	1336	1340	126
15°	1265	1271	1288	1304	1314	357
25°	1151	1160	1194	1226	1237	530
35°	992	1007	1045	1084	1097	620
45°	804	815	850	886	897	619
55°	592	602	626	652	660	530
65°	372	372	389	406	411	368
75°	170	166	174	178	181	183
85°	34	34	32	30	30	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1338.1	1338.1	1338.1	1338.1	<i>1338.1</i>
2.5°	<i>1332.5</i>	<i>1332.5</i>	<i>1334.3</i>	<i>1339.9</i>	<i>1341.8</i>
5°	1326.8	1326.8	1332.5	1336.2	<i>1339.9</i>
7.5°	1317.5	1319.4	1325.0	1332.5	<i>1334.3</i>
10°	1304.4	1306.3	1315.6	1325.0	<i>1330.6</i>
12.5°	1287.6	1291.3	1302.6	1317.5	<i>1323.1</i>
15°	1265.2	1270.8	1287.6	1304.4	<i>1313.8</i>
17.5°	1240.9	1248.4	1267.0	1291.3	<i>1300.7</i>
20°	1212.9	1222.2	1246.5	1272.7	<i>1283.9</i>
22.5°	1184.8	1192.3	1220.3	1250.2	<i>1263.3</i>
25°	1151.2	1160.5	1194.2	1225.9	<i>1237.1</i>
27.5°	1113.8	1126.9	1162.4	1196.0	<i>1207.2</i>
30°	1076.4	1087.6	1125.0	1162.4	<i>1175.5</i>
32.5°	1035.3	1046.5	1087.6	1125.0	<i>1140.0</i>
35°	992.3	1007.3	1044.7	1083.9	<i>1097.0</i>
37.5°	945.6	962.4	1001.7	1035.3	<i>1052.1</i>
40°	898.9	913.8	953.1	988.6	<i>1001.7</i>
42.5°	852.2	865.3	902.6	940.0	<i>951.2</i>
45°	803.6	814.8	850.3	885.8	<i>897.0</i>
47.5°	751.3	764.3	798.0	827.9	<i>841.0</i>
50°	698.9	712.0	743.8	771.8	<i>783.0</i>
52.5°	648.5	655.9	685.8	712.0	<i>725.1</i>
55°	592.4	601.8	626.0	652.2	<i>659.7</i>
57.5°	538.2	543.8	568.1	590.5	<i>601.8</i>
60°	482.2	485.9	508.3	525.1	<i>538.2</i>
62.5°	429.8	429.8	446.6	465.3	<i>472.8</i>
65°	371.9	371.9	388.7	405.5	<i>411.1</i>
67.5°	315.8	319.6	330.8	343.9	<i>347.6</i>
70°	263.5	263.5	274.7	284.1	<i>285.9</i>
72.5°	216.8	214.9	220.5	228.0	<i>231.7</i>
75°	170.1	166.3	173.8	177.5	<i>181.3</i>
77.5°	128.9	127.1	130.8	134.6	<i>134.6</i>
80°	91.6	89.7	93.4	93.4	<i>95.3</i>
82.5°	59.8	61.7	61.7	59.8	<i>57.9</i>
85°	33.6	33.6	31.8	29.9	<i>29.9</i>
87.5°	11.2	11.2	11.2	13.1	<i>13.1</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)