

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: P298320

Luminaire Tested: **D3X-WO-35L83050-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-35L83050-LD5-UNV-22-T1-W2A-3000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3345.0 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

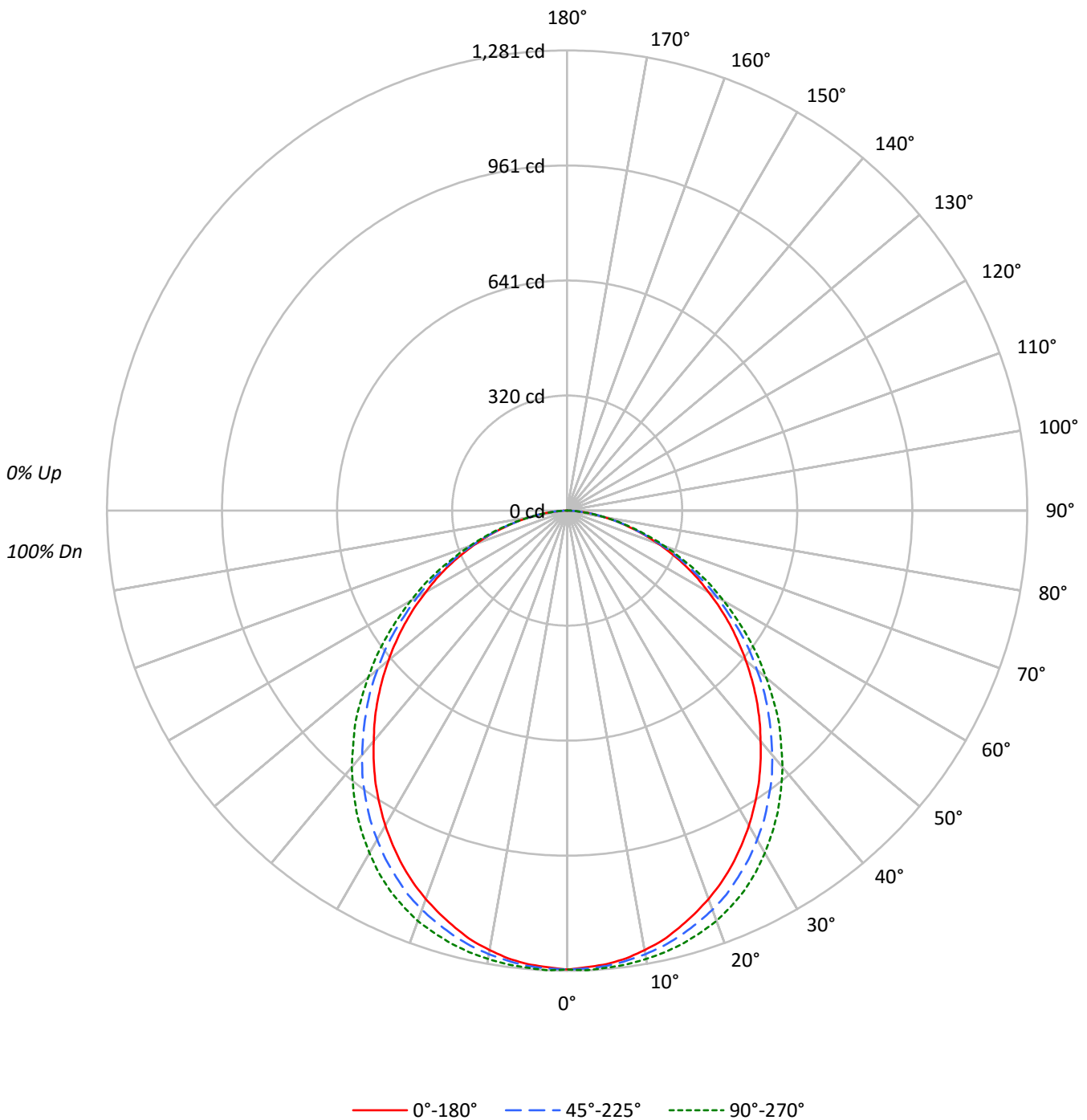
Input Watts (W): 27.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	70	62	56	68	61	56	66	60	55	64	58	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	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3437	3437	3437
5°	3424	3437	3451
10°	3395	3427	3463
15°	3350	3410	3475
20°	3296	3386	3482
25°	3229	3343	3467
30°	3146	3286	3421
35°	3053	3211	3359
40°	2943	3118	3276
45°	2839	3011	3175
50°	2719	2887	3026
55°	2594	2750	2883
60°	2447	2590	2707
65°	2312	2397	2513
70°	2123	2188	2267
75°	1887	1939	1991
80°	1626	1601	1601
85°	1235	1130	1028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	3.6
10°-20°	345.4	10.3
20°-30°	518.6	15.5
30°-40°	610.3	18.2
40°-50°	608.8	18.2
50°-60°	522.4	15.6
60°-70°	374.1	11.2
70°-80°	198.1	5.9
80°-90°	46.3	1.4
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°	984.8	29.4
0°-40°	1595.2	47.7
0°-60°	2726.4	81.5
0°-90°	3345.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3345.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1277	1277	1277	1277	1277	
5°	1267	1267	1272	1276	1277	120
15°	1202	1208	1224	1241	1247	339
25°	1088	1098	1126	1154	1168	500
35°	929	941	978	1011	1023	580
45°	746	758	791	819	834	575
55°	553	561	586	606	615	494
65°	363	365	376	391	395	359
75°	182	182	186	190	192	195
85°	40	38	37	33	33	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1277.4	1277.4	1277.4	1277.4	1277.4
2.5°	1272.4	1272.4	1275.8	1279.1	1280.8
5°	1267.4	1267.4	1272.4	1275.8	1277.4
7.5°	1257.4	1257.4	1264.1	1270.8	1274.1
10°	1242.5	1245.8	1254.1	1264.1	1267.4
12.5°	1225.8	1229.1	1240.8	1254.1	1259.1
15°	1202.5	1207.5	1224.1	1240.8	1247.4
17.5°	1177.5	1184.2	1204.1	1224.1	1232.5
20°	1150.8	1157.5	1182.5	1205.8	1215.8
22.5°	1120.9	1129.2	1157.5	1182.5	1192.5
25°	1087.6	1097.6	1125.9	1154.2	1167.5
27.5°	1050.9	1062.6	1094.2	1124.2	1135.9
30°	1012.6	1025.9	1057.6	1089.2	1100.9
32.5°	971.0	982.6	1020.9	1050.9	1062.6
35°	929.3	941.0	977.6	1010.9	1022.6
37.5°	884.4	899.4	936.0	966.0	977.6
40°	837.7	852.7	887.7	922.7	932.7
42.5°	792.8	806.1	839.4	871.0	881.0
45°	746.1	757.8	791.1	819.4	834.4
47.5°	697.8	709.5	742.8	769.5	777.8
50°	649.5	661.2	689.5	712.8	722.8
52.5°	601.2	612.9	639.5	661.2	671.2
55°	552.9	561.3	586.2	606.2	614.6
57.5°	504.6	511.3	531.3	552.9	557.9
60°	454.7	463.0	481.3	496.3	503.0
62.5°	409.7	413.0	429.7	443.0	451.3
65°	363.1	364.7	376.4	391.4	394.7
67.5°	314.8	316.4	328.1	336.4	339.8
70°	269.8	269.8	278.1	284.8	288.1
72.5°	226.5	224.8	229.8	236.5	239.8
75°	181.5	181.5	186.5	189.9	191.5
77.5°	143.2	139.9	143.2	146.6	146.6
80°	104.9	103.3	103.3	104.9	103.3
82.5°	71.6	70.0	71.6	68.3	66.6
85°	40.0	38.3	36.6	33.3	33.3
87.5°	13.3	11.7	11.7	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)