

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: P297844

Luminaire Tested: **D3X-WO-35L83050-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)
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-14-T1-W2A-3000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3369.0 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

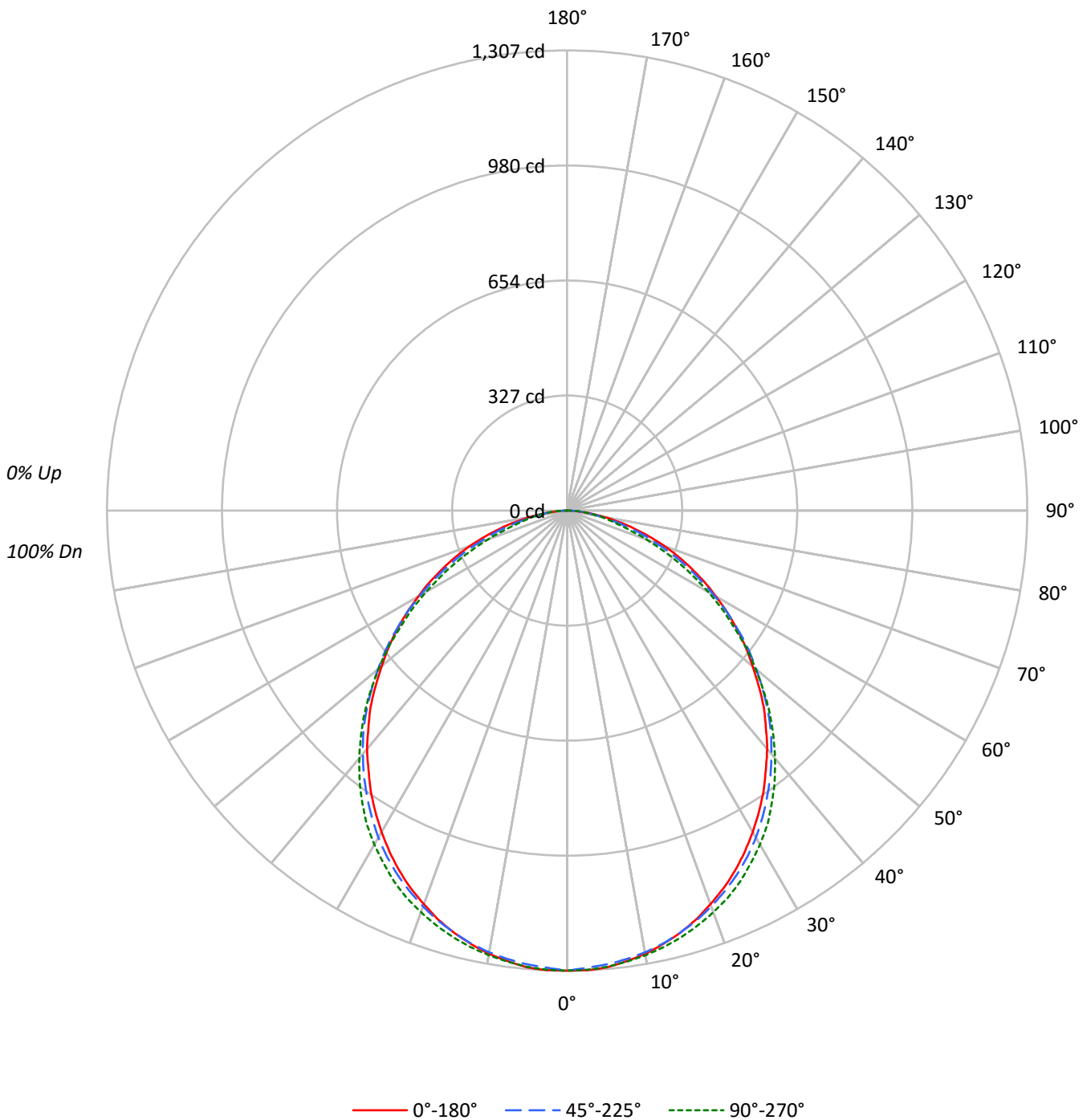
Input Watts (W): 33.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	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	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	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	46	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	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3516	3516	3516
5°	3518	3495	3514
10°	3493	3481	3504
15°	3457	3457	3493
20°	3407	3427	3476
25°	3350	3388	3452
30°	3275	3333	3404
35°	3195	3256	3331
40°	3105	3171	3226
45°	3005	3071	3098
50°	2876	2936	2923
55°	2767	2787	2714
60°	2629	2590	2490
65°	2483	2383	2219
70°	2304	2113	1876
75°	2049	1811	1544
80°	1705	1483	1438
85°	1235	1321	1321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.3	3.7
10°-20°	351.3	10.4
20°-30°	526.5	15.6
30°-40°	620.3	18.4
40°-50°	618.7	18.4
50°-60°	526.2	15.6
60°-70°	367.3	10.9
70°-80°	186.7	5.5
80°-90°	48.7	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°	1001.1	29.7
0°-40°	1621.4	48.1
0°-60°	2766.3	82.1
0°-90°	3369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3369.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1307	1307	1307	1307	1307	
5°	1302	1300	1294	1301	1301	123
15°	1241	1241	1241	1252	1254	350
25°	1128	1130	1141	1158	1162	519
35°	972	974	991	1011	1014	608
45°	790	793	807	813	814	608
55°	590	590	594	586	578	527
65°	390	384	374	354	348	387
75°	197	190	174	153	148	209
85°	40	41	43	43	43	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1306.7	1306.7	1306.7	1306.7	1306.7
2.5°	1306.7	1305.3	1299.6	1305.3	1305.3
5°	1302.4	1299.6	1293.9	1301.0	1301.0
7.5°	1291.0	1289.6	1285.3	1292.4	1292.4
10°	1278.2	1276.7	1273.9	1282.4	1282.4
12.5°	1261.0	1261.0	1259.6	1268.2	1269.6
15°	1241.0	1241.0	1241.0	1252.5	1253.9
17.5°	1218.2	1216.7	1221.0	1233.9	1235.3
20°	1189.6	1191.0	1196.8	1211.0	1213.9
22.5°	1161.1	1162.5	1169.6	1186.8	1191.0
25°	1128.2	1129.6	1141.1	1158.2	1162.5
27.5°	1092.5	1095.4	1108.2	1126.8	1129.6
30°	1053.9	1056.8	1072.5	1091.1	1095.4
32.5°	1014.0	1018.2	1032.5	1052.5	1058.2
35°	972.5	974.0	991.1	1011.1	1014.0
37.5°	926.8	931.1	948.3	965.4	968.3
40°	884.0	886.9	902.6	916.8	918.3
42.5°	835.4	839.7	856.9	866.9	866.9
45°	789.7	792.6	806.9	812.6	814.0
47.5°	738.3	741.2	754.0	756.9	756.9
50°	686.9	694.1	701.2	701.2	698.3
52.5°	639.8	641.2	649.8	644.1	641.2
55°	589.8	589.8	594.1	585.5	578.4
57.5°	539.8	539.8	539.8	528.4	522.7
60°	488.4	487.0	481.3	467.0	462.7
62.5°	439.9	435.6	427.0	412.7	404.2
65°	389.9	384.2	374.2	354.2	348.5
67.5°	342.7	332.7	321.3	302.8	292.8
70°	292.8	284.2	268.5	247.1	238.5
72.5°	244.2	235.6	222.8	201.4	188.5
75°	197.1	189.9	174.2	152.8	148.5
77.5°	151.4	147.1	131.4	121.4	120.0
80°	110.0	108.5	95.7	92.8	92.8
82.5°	72.8	71.4	67.1	67.1	65.7
85°	40.0	41.4	42.8	42.8	42.8
87.5°	14.3	17.1	20.0	20.0	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)