

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: P298361

Luminaire Tested: **D3X-WO-31L82765-LD5-UNV-22-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298361
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-31L82765-LD5-UNV-22-T1-W2A-6500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3287.0 lumens
Efficiency: N/A
Efficacy: 128.4 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

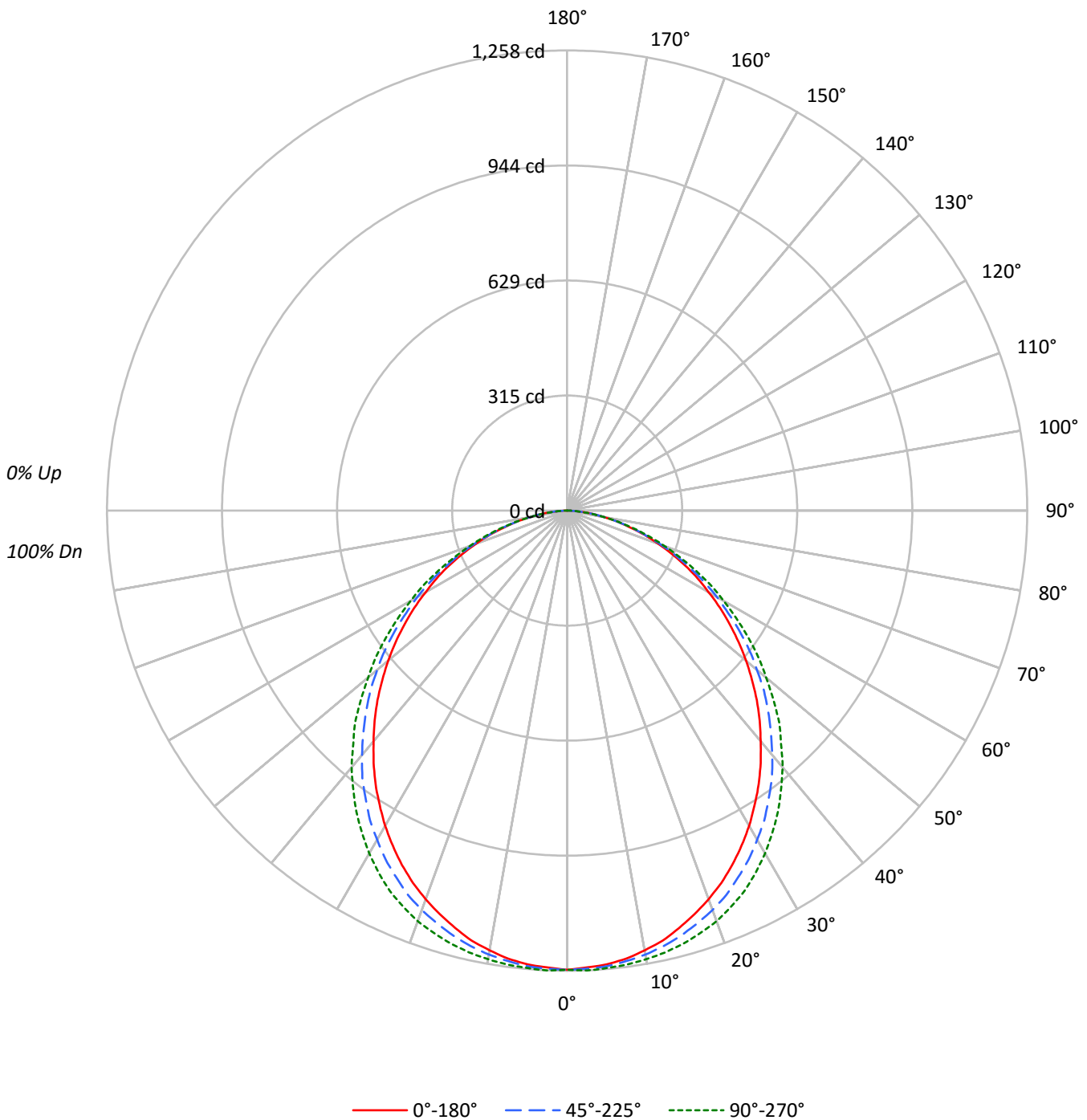
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3378	3378	3378
5°	3364	3378	3391
10°	3336	3368	3403
15°	3292	3351	3415
20°	3239	3328	3421
25°	3173	3285	3407
30°	3092	3229	3361
35°	3000	3156	3301
40°	2892	3064	3220
45°	2790	2958	3120
50°	2672	2837	2974
55°	2549	2703	2833
60°	2405	2546	2660
65°	2272	2355	2470
70°	2086	2150	2227
75°	1855	1906	1957
80°	1598	1573	1573
85°	1213	1112	1010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	3.6
10°-20°	339.4	10.3
20°-30°	509.6	15.5
30°-40°	599.8	18.2
40°-50°	598.2	18.2
50°-60°	513.4	15.6
60°-70°	367.7	11.2
70°-80°	194.7	5.9
80°-90°	45.5	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°	967.8	29.4
0°-40°	1567.5	47.7
0°-60°	2679.1	81.5
0°-90°	3287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3287.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1255	1255	1255	1255	1255	
5°	1246	1246	1250	1254	1255	118
15°	1182	1186	1203	1219	1226	333
25°	1069	1078	1106	1134	1147	492
35°	913	925	961	993	1005	570
45°	733	745	777	805	820	565
55°	543	552	576	596	604	486
65°	357	358	370	385	388	352
75°	178	178	183	187	188	191
85°	39	38	36	33	33	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1255.3	1255.3	1255.3	1255.3	1255.3
2.5°	1250.4	1250.4	1253.6	1256.9	1258.5
5°	1245.5	1245.5	1250.4	1253.6	1255.3
7.5°	1235.6	1235.6	1242.2	1248.7	1252.0
10°	1220.9	1224.2	1232.4	1242.2	1245.5
12.5°	1204.5	1207.8	1219.3	1232.4	1237.3
15°	1181.6	1186.5	1202.9	1219.3	1225.8
17.5°	1157.1	1163.6	1183.3	1202.9	1211.1
20°	1130.9	1137.4	1162.0	1184.9	1194.7
22.5°	1101.4	1109.6	1137.4	1162.0	1171.8
25°	1068.7	1078.5	1106.3	1134.2	1147.3
27.5°	1032.7	1044.2	1075.2	1104.7	1116.2
30°	995.1	1008.1	1039.2	1070.3	1081.8
32.5°	954.1	965.6	1003.2	1032.7	1044.2
35°	913.2	924.7	960.7	993.4	1004.9
37.5°	869.0	883.8	919.8	949.2	960.7
40°	823.2	837.9	872.3	906.7	916.5
42.5°	779.0	792.1	824.8	855.9	865.8
45°	733.2	744.7	777.4	805.2	819.9
47.5°	685.7	697.2	729.9	756.1	764.3
50°	638.3	649.7	677.6	700.5	710.3
52.5°	590.8	602.3	628.5	649.7	659.6
55°	543.4	551.5	576.1	595.7	603.9
57.5°	495.9	502.4	522.1	543.4	548.3
60°	446.8	455.0	473.0	487.7	494.3
62.5°	402.6	405.9	422.2	435.3	443.5
65°	356.8	358.4	369.9	384.6	387.9
67.5°	309.3	311.0	322.4	330.6	333.9
70°	265.1	265.1	273.3	279.9	283.1
72.5°	222.6	220.9	225.9	232.4	235.7
75°	178.4	178.4	183.3	186.6	188.2
77.5°	140.7	137.5	140.7	144.0	144.0
80°	103.1	101.5	101.5	103.1	101.5
82.5°	70.4	68.7	70.4	67.1	65.5
85°	39.3	37.6	36.0	32.7	32.7
87.5°	13.1	11.5	11.5	13.1	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)