

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: P298358

Luminaire Tested: **D3X-WO-31L82765-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298358
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-5000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3238.0 lumens
Efficiency: N/A
Efficacy: 129.5 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

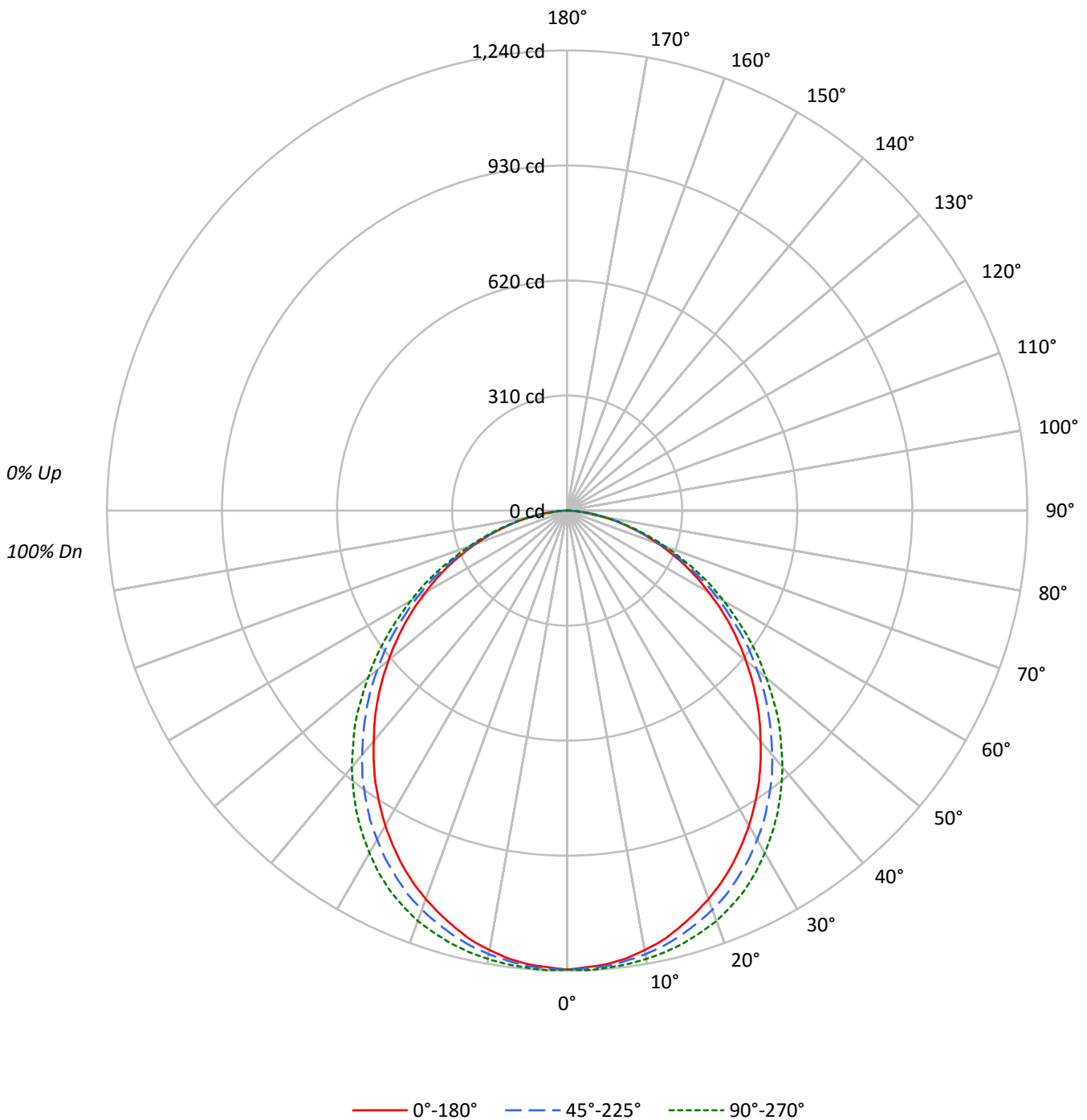
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3328	3328	3328
5°	3314	3327	3340
10°	3286	3317	3352
15°	3243	3301	3364
20°	3190	3278	3370
25°	3126	3236	3356
30°	3046	3181	3311
35°	2955	3109	3252
40°	2849	3019	3171
45°	2749	2914	3074
50°	2632	2794	2929
55°	2511	2662	2791
60°	2369	2507	2620
65°	2238	2320	2433
70°	2055	2118	2194
75°	1827	1878	1928
80°	1574	1550	1550
85°	1195	1096	994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.0	3.6
10°-20°	334.3	10.3
20°-30°	502.0	15.5
30°-40°	590.8	18.2
40°-50°	589.3	18.2
50°-60°	505.7	15.6
60°-70°	362.2	11.2
70°-80°	191.8	5.9
80°-90°	44.9	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°	953.3	29.4
0°-40°	1544.2	47.7
0°-60°	2639.2	81.5
0°-90°	3238.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3238.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1237	1237	1237	1237	1237	
5°	1227	1227	1232	1235	1237	116
15°	1164	1169	1185	1201	1208	328
25°	1053	1062	1090	1117	1130	484
35°	900	911	946	979	990	562
45°	722	734	766	793	808	557
55°	535	543	568	587	595	478
65°	352	353	364	379	382	347
75°	176	176	181	184	185	188
85°	39	37	36	32	32	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1236.6	1236.6	1236.6	1236.6	1236.6
2.5°	1231.7	1231.7	1235.0	1238.2	1239.8
5°	1226.9	1226.9	1231.7	1235.0	1236.6
7.5°	1217.2	1217.2	1223.7	1230.1	1233.3
10°	1202.7	1205.9	1214.0	1223.7	1226.9
12.5°	1186.6	1189.8	1201.1	1214.0	1218.8
15°	1164.0	1168.9	1185.0	1201.1	1207.5
17.5°	1139.8	1146.3	1165.6	1185.0	1193.0
20°	1114.0	1120.5	1144.7	1167.2	1176.9
22.5°	1085.0	1093.1	1120.5	1144.7	1154.3
25°	1052.8	1062.4	1089.9	1117.3	1130.2
27.5°	1017.3	1028.6	1059.2	1088.2	1099.5
30°	980.2	993.1	1023.8	1054.4	1065.7
32.5°	939.9	951.2	988.3	1017.3	1028.6
35°	899.6	910.9	946.4	978.6	989.9
37.5°	856.1	870.6	906.1	935.1	946.4
40°	810.9	825.5	859.3	893.2	902.8
42.5°	767.4	780.3	812.6	843.2	852.9
45°	722.3	733.6	765.8	793.2	807.7
47.5°	675.5	686.8	719.0	744.8	752.9
50°	628.8	640.0	667.5	690.0	699.7
52.5°	582.0	593.3	619.1	640.0	649.7
55°	535.3	543.3	567.5	586.8	594.9
57.5°	488.5	494.9	514.3	535.3	540.1
60°	440.1	448.2	465.9	480.4	486.9
62.5°	396.6	399.8	415.9	428.8	436.9
65°	351.5	353.1	364.4	378.9	382.1
67.5°	304.7	306.3	317.6	325.7	328.9
70°	261.2	261.2	269.2	275.7	278.9
72.5°	219.3	217.6	222.5	228.9	232.2
75°	175.7	175.7	180.6	183.8	185.4
77.5°	138.6	135.4	138.6	141.9	141.9
80°	101.6	100.0	100.0	101.6	100.0
82.5°	69.3	67.7	69.3	66.1	64.5
85°	38.7	37.1	35.5	32.2	32.2
87.5°	12.9	11.3	11.3	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)