

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: P298027

Luminaire Tested: **D3X-WD-35L82765-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-35L82765-LD5-UNV-22-T1-W2A-3000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3092.0 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

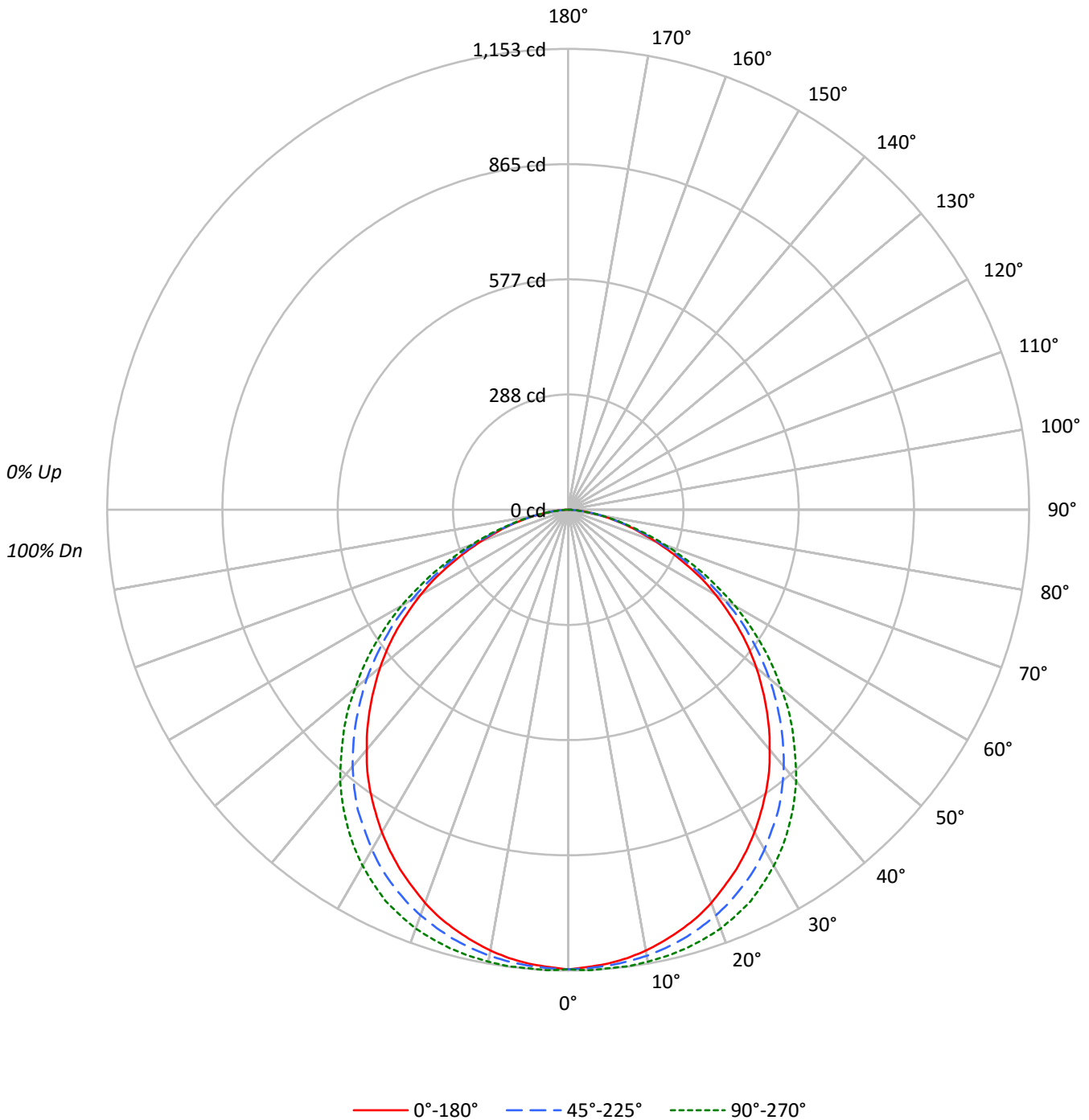
Input Watts (W): 27.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	85	80	97	90	84	79	87	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	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3095	3095	3095
5°	3080	3093	3111
10°	3061	3097	3138
15°	3032	3097	3167
20°	2998	3093	3193
25°	2950	3079	3207
30°	2896	3051	3196
35°	2832	3012	3166
40°	2754	2947	3116
45°	2667	2856	3027
50°	2571	2752	2912
55°	2452	2616	2780
60°	2293	2436	2598
65°	2077	2204	2342
70°	1833	1925	2030
75°	1575	1609	1678
80°	1265	1289	1316
85°	926	821	821



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	3.5
10°-20°	313.9	10.2
20°-30°	477.5	15.4
30°-40°	571.3	18.5
40°-50°	577.6	18.7
50°-60°	497.0	16.1
60°-70°	343.2	11.1
70°-80°	166.4	5.4
80°-90°	36.1	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°	900.4	29.1
0°-40°	1471.7	47.6
0°-60°	2546.4	82.4
0°-90°	3092.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3092.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1150	1150	1150	1150	1150	
5°	1140	1142	1145	1150	1152	108
15°	1088	1095	1112	1128	1137	307
25°	994	1005	1037	1068	1080	457
35°	862	877	917	950	964	539
45°	701	714	751	782	796	540
55°	523	531	558	582	592	466
65°	326	331	346	361	368	325
75°	152	148	155	160	161	161
85°	30	30	27	27	27	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1150.0	1150.0	1150.0	1150.0	1150.0
2.5°	1145.0	1145.0	1148.4	1151.7	1153.4
5°	1140.1	1141.7	1145.0	1150.0	1151.7
7.5°	1131.7	1133.4	1140.1	1148.4	1151.7
10°	1120.1	1123.4	1133.4	1143.4	1148.4
12.5°	1105.1	1111.8	1123.4	1136.7	1143.4
15°	1088.5	1095.1	1111.8	1128.4	1136.7
17.5°	1070.2	1076.8	1096.8	1118.4	1126.7
20°	1046.9	1056.8	1080.1	1105.1	1115.1
22.5°	1020.2	1033.5	1060.2	1086.8	1098.4
25°	993.6	1005.2	1036.9	1068.5	1080.1
27.5°	963.6	977.0	1011.9	1043.5	1055.2
30°	932.0	945.3	981.9	1016.9	1028.5
32.5°	897.1	913.7	948.7	985.3	998.6
35°	862.1	877.1	917.0	950.3	963.6
37.5°	825.5	838.8	878.8	913.7	927.0
40°	783.9	798.9	838.8	873.8	887.1
42.5°	743.9	758.9	795.5	828.8	840.5
45°	700.7	714.0	750.6	782.2	795.5
47.5°	657.4	672.4	704.0	735.6	748.9
50°	614.1	625.8	657.4	687.4	695.7
52.5°	569.2	579.2	607.5	634.1	645.8
55°	522.6	530.9	557.5	582.5	592.5
57.5°	472.7	482.7	507.6	525.9	537.6
60°	426.1	431.1	452.7	471.0	482.7
62.5°	379.5	381.1	397.8	416.1	422.7
65°	326.2	331.2	346.2	361.2	367.8
67.5°	277.9	282.9	294.6	306.2	311.2
70°	233.0	233.0	244.7	253.0	258.0
72.5°	188.1	189.7	198.1	203.0	208.0
75°	151.5	148.1	154.8	159.8	161.4
77.5°	113.2	111.5	116.5	118.2	121.5
80°	81.6	81.6	83.2	84.9	84.9
82.5°	53.3	53.3	54.9	51.6	49.9
85°	30.0	30.0	26.6	26.6	26.6
87.5°	10.0	10.0	10.0	11.7	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)