

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: P298152

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-35L83050-LD5-UNV-22-T1-W2A-3000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3139.0 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

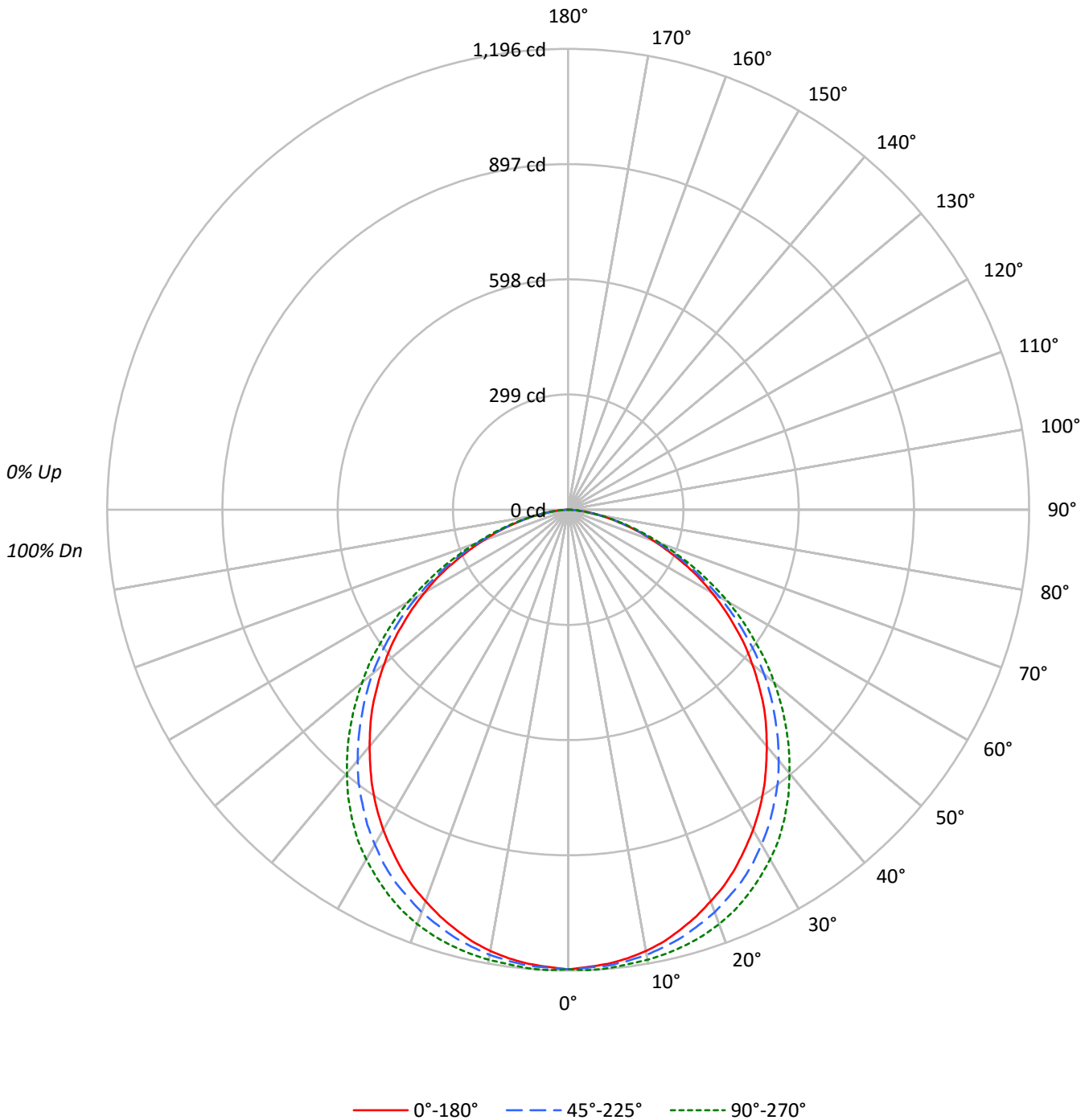
Input Watts (W): 27.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	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	47	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	28
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3210	3210	3210
5°	3195	3209	3227
10°	3178	3205	3241
15°	3142	3198	3263
20°	3096	3182	3278
25°	3047	3161	3275
30°	2982	3117	3256
35°	2906	3059	3213
40°	2815	2985	3137
45°	2726	2885	3043
50°	2609	2776	2923
55°	2478	2618	2759
60°	2313	2439	2582
65°	2111	2206	2334
70°	1848	1927	2006
75°	1576	1611	1680
80°	1265	1291	1317
85°	926	874	824



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.9	3.6
10°-20°	324.1	10.3
20°-30°	489.9	15.6
30°-40°	581.9	18.5
40°-50°	584.2	18.6
50°-60°	499.0	15.9
60°-70°	343.8	11.0
70°-80°	166.7	5.3
80°-90°	36.5	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°	926.9	29.5
0°-40°	1508.8	48.1
0°-60°	2592.0	82.6
0°-90°	3139.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3139.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1193	1193	1193	1193	1193	
5°	1183	1183	1188	1191	1195	112
15°	1128	1133	1148	1163	1171	318
25°	1026	1035	1065	1093	1103	472
35°	885	898	931	966	978	553
45°	716	726	758	790	800	551
55°	528	536	558	582	588	472
65°	332	332	346	362	366	328
75°	152	148	155	158	162	163
85°	30	30	28	27	27	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1192.9	1192.9	1192.9	1192.9	1192.9
2.5°	1187.9	1187.9	1189.6	1194.6	1196.2
5°	1182.9	1182.9	1187.9	1191.2	1194.6
7.5°	1174.6	1176.2	1181.2	1187.9	1189.6
10°	1162.9	1164.6	1172.9	1181.2	1186.2
12.5°	1147.9	1151.2	1161.2	1174.6	1179.6
15°	1127.9	1132.9	1147.9	1162.9	1171.2
17.5°	1106.3	1112.9	1129.6	1151.2	1159.6
20°	1081.3	1089.6	1111.3	1134.6	1144.6
22.5°	1056.3	1062.9	1087.9	1114.6	1126.2
25°	1026.3	1034.6	1064.6	1092.9	1102.9
27.5°	993.0	1004.6	1036.3	1066.3	1076.3
30°	959.6	969.6	1003.0	1036.3	1047.9
32.5°	923.0	933.0	969.6	1003.0	1016.3
35°	884.7	898.0	931.3	966.3	978.0
37.5°	843.0	858.0	893.0	923.0	938.0
40°	801.4	814.7	849.7	881.3	893.0
42.5°	759.7	771.4	804.7	838.0	848.0
45°	716.4	726.4	758.1	789.7	799.7
47.5°	669.8	681.4	711.4	738.1	749.7
50°	623.1	634.8	663.1	688.1	698.1
52.5°	578.1	584.8	611.4	634.8	646.4
55°	528.1	536.5	558.1	581.5	588.1
57.5°	479.8	484.8	506.5	526.5	536.5
60°	429.8	433.2	453.2	468.2	479.8
62.5°	383.2	383.2	398.2	414.8	421.5
65°	331.5	331.5	346.5	361.5	366.5
67.5°	281.6	284.9	294.9	306.6	309.9
70°	234.9	234.9	244.9	253.2	254.9
72.5°	193.3	191.6	196.6	203.3	206.6
75°	151.6	148.3	154.9	158.3	161.6
77.5°	115.0	113.3	116.6	120.0	120.0
80°	81.6	80.0	83.3	83.3	85.0
82.5°	53.3	55.0	55.0	53.3	51.6
85°	30.0	30.0	28.3	26.7	26.7
87.5°	10.0	10.0	10.0	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)