

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: P298240

Luminaire Tested: **D3X-WG-35L93050-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298240
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-35L93050-LD5-UNV-22-T1-W2A-5000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3102.0 lumens
Efficiency: N/A
Efficacy: 106.6 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

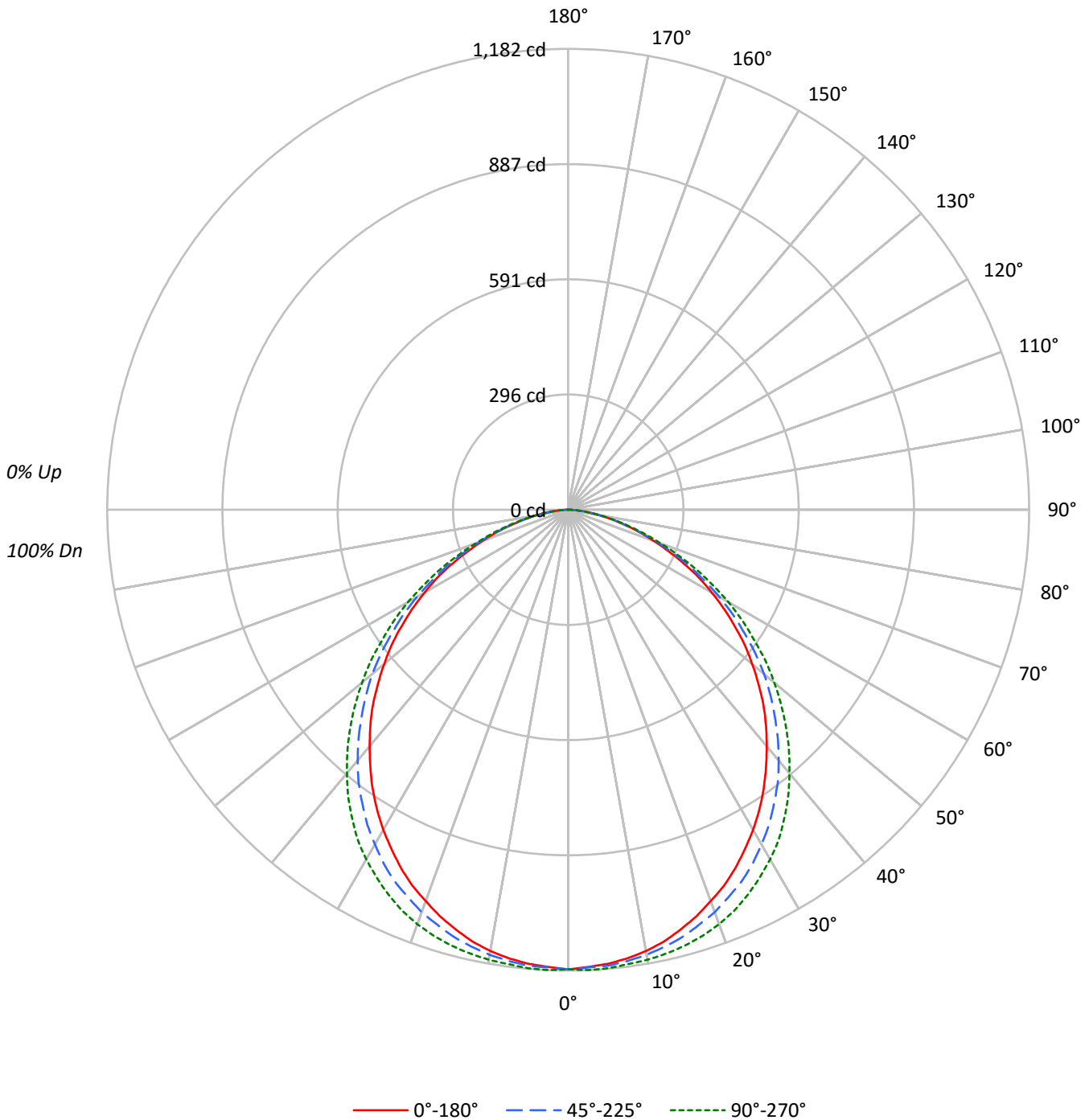
Input Watts (W): 29.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3172	3172	3172
5°	3158	3171	3189
10°	3140	3167	3203
15°	3105	3160	3224
20°	3060	3145	3239
25°	3011	3124	3236
30°	2947	3080	3218
35°	2872	3023	3175
40°	2782	2950	3100
45°	2694	2851	3008
50°	2578	2743	2888
55°	2449	2587	2727
60°	2286	2410	2552
65°	2086	2181	2306
70°	1826	1904	1982
75°	1557	1592	1660
80°	1251	1275	1302
85°	914	865	812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	3.6
10°-20°	320.2	10.3
20°-30°	484.1	15.6
30°-40°	575.1	18.5
40°-50°	577.3	18.6
50°-60°	493.1	15.9
60°-70°	339.7	11.0
70°-80°	164.7	5.3
80°-90°	36.0	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°	916.0	29.5
0°-40°	1491.0	48.1
0°-60°	2561.5	82.6
0°-90°	3102.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3102.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1179	1179	1179	1179	1179	
5°	1169	1169	1174	1177	1180	111
15°	1115	1120	1134	1149	1157	314
25°	1014	1022	1052	1080	1090	467
35°	874	887	920	955	966	546
45°	708	718	749	780	790	545
55°	522	530	552	575	581	467
65°	328	328	342	357	362	325
75°	150	146	153	156	160	161
85°	30	30	28	26	26	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1178.8	1178.8	1178.8	1178.8	1178.8
2.5°	1173.9	1173.9	1175.5	1180.5	1182.1
5°	1169.0	1169.0	1173.9	1177.2	1180.5
7.5°	1160.7	1162.4	1167.3	1173.9	1175.5
10°	1149.2	1150.8	1159.1	1167.3	1172.2
12.5°	1134.4	1137.7	1147.5	1160.7	1165.7
15°	1114.6	1119.6	1134.4	1149.2	1157.4
17.5°	1093.2	1099.8	1116.3	1137.7	1145.9
20°	1068.5	1076.8	1098.2	1121.2	1131.1
22.5°	1043.8	1050.4	1075.1	1101.4	1113.0
25°	1014.2	1022.4	1052.1	1080.0	1089.9
27.5°	981.3	992.8	1024.1	1053.7	1063.6
30°	948.3	958.2	991.1	1024.1	1035.6
32.5°	912.1	922.0	958.2	991.1	1004.3
35°	874.2	887.4	920.3	954.9	966.4
37.5°	833.1	847.9	882.5	912.1	926.9
40°	791.9	805.1	839.7	871.0	882.5
42.5°	750.8	762.3	795.2	828.1	838.0
45°	708.0	717.8	749.1	780.4	790.3
47.5°	661.9	673.4	703.0	729.4	740.9
50°	615.8	627.3	655.3	680.0	689.8
52.5°	571.3	577.9	604.2	627.3	638.8
55°	521.9	530.1	551.5	574.6	581.2
57.5°	474.2	479.1	500.5	520.3	530.1
60°	424.8	428.1	447.8	462.6	474.2
62.5°	378.7	378.7	393.5	410.0	416.5
65°	327.6	327.6	342.5	357.3	362.2
67.5°	278.2	281.5	291.4	302.9	306.2
70°	232.1	232.1	242.0	250.3	251.9
72.5°	191.0	189.3	194.3	200.9	204.2
75°	149.8	146.5	153.1	156.4	159.7
77.5°	113.6	112.0	115.2	118.5	118.5
80°	80.7	79.0	82.3	82.3	84.0
82.5°	52.7	54.3	54.3	52.7	51.0
85°	29.6	29.6	28.0	26.3	26.3
87.5°	9.9	9.9	9.9	11.5	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)