

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: METALUX

Report Number: P290862

Luminaire Tested: **14GR-LD5-28-F125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-28-F125-UNV-L93050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2449.0 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

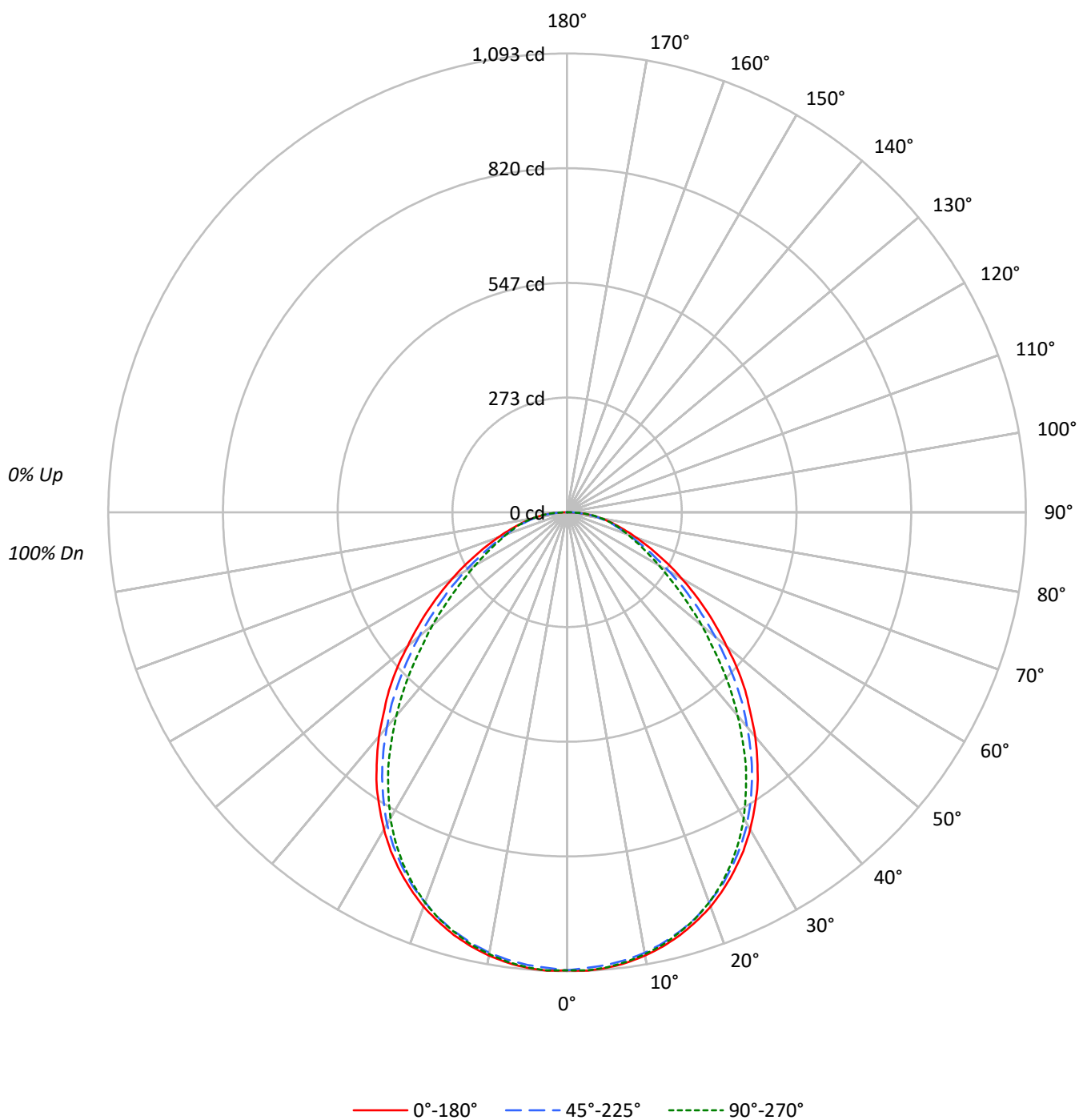
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		81
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		73
4	85	74	66	59	83	73	65	59	70	64	58		68	62	58		66
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60
6	73	60	52	46	71	60	52	46	58	51	45		56	50	45		55
7	68	55	47	41	66	54	47	41	53	46	41		51	45	40		50
8	64	51	43	37	62	50	42	37	49	42	37		47	41	36		46
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		43
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2936	2936	2936
5°	2942	2924	2939
10°	2929	2910	2920
15°	2903	2881	2886
20°	2863	2831	2833
25°	2797	2763	2744
30°	2711	2665	2615
35°	2600	2525	2441
40°	2449	2344	2221
45°	2284	2146	1986
50°	2077	1925	1754
55°	1891	1707	1529
60°	1695	1504	1358
65°	1512	1340	1248
70°	1375	1221	1208
75°	1285	1189	1249
80°	1291	1229	1300
85°	1349	1260	1439



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	4.2
10°-20°	292.5	11.9
20°-30°	428.8	17.5
30°-40°	478.6	19.5
40°-50°	433.3	17.7
50°-60°	327.2	13.4
60°-70°	213.9	8.7
70°-80°	125.6	5.1
80°-90°	46.0	1.9
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°	824.4	33.7
0°-40°	1303.0	53.2
0°-60°	2063.5	84.3
0°-90°	2449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2449.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1091	1091	1091	1091	1091	
5°	1089	1087	1082	1089	1088	103
15°	1042	1040	1034	1040	1036	294
25°	942	939	931	929	924	433
35°	792	785	768	751	743	493
45°	600	591	564	533	522	461
55°	403	394	364	335	326	361
65°	237	230	210	198	196	238
75°	124	120	114	117	120	133
85°	44	42	41	46	47	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1091.0	1091.0	1091.0	1091.0	1091.0
2.5°	1092.7	1091.0	1085.8	1092.7	1092.2
5°	1089.3	1087.0	1082.4	1088.7	1088.1
7.5°	1082.4	1080.1	1075.5	1081.2	1080.1
10°	1072.0	1069.7	1065.1	1071.5	1068.6
12.5°	1058.8	1056.5	1051.4	1057.1	1054.8
15°	1042.2	1040.4	1034.1	1039.9	1035.8
17.5°	1022.0	1019.2	1014.6	1018.0	1015.1
20°	999.6	996.2	988.7	992.1	989.3
22.5°	972.6	968.0	962.8	962.8	958.8
25°	942.1	938.7	930.6	928.9	924.3
27.5°	909.4	906.5	896.1	893.3	885.2
30°	872.6	868.6	857.6	848.4	841.5
32.5°	831.8	828.9	813.9	801.9	792.1
35°	791.5	784.6	768.5	751.3	743.2
37.5°	744.4	739.2	719.1	697.8	686.9
40°	697.3	690.9	667.4	643.8	632.3
42.5°	646.1	640.4	617.9	589.8	577.7
45°	600.1	590.9	563.9	533.4	521.9
47.5°	549.5	539.8	511.0	478.8	465.6
50°	496.1	489.7	459.9	428.8	419.0
52.5°	448.4	438.6	410.4	380.0	369.6
55°	403.0	393.8	363.9	335.1	325.9
57.5°	357.5	347.2	321.3	295.5	286.3
60°	315.0	304.7	279.4	258.1	252.3
62.5°	276.5	265.0	242.6	225.9	221.9
65°	237.4	229.9	210.4	198.3	196.0
67.5°	204.6	195.4	179.9	174.2	173.0
70°	174.7	168.4	155.2	153.5	153.5
72.5°	147.7	142.6	132.8	133.9	135.7
75°	123.6	120.1	114.4	116.7	120.1
77.5°	102.9	99.4	96.0	99.4	101.7
80°	83.3	79.9	79.3	82.2	83.9
82.5°	62.7	59.8	60.4	65.0	66.7
85°	43.7	42.0	40.8	46.0	46.6
87.5°	22.4	21.3	20.7	24.7	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)