

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: P290907

Luminaire Tested: **14GR-LD5-28-F125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290907
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-L92765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2545.0 lumens
Efficiency: N/A
Efficacy: 113.1 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

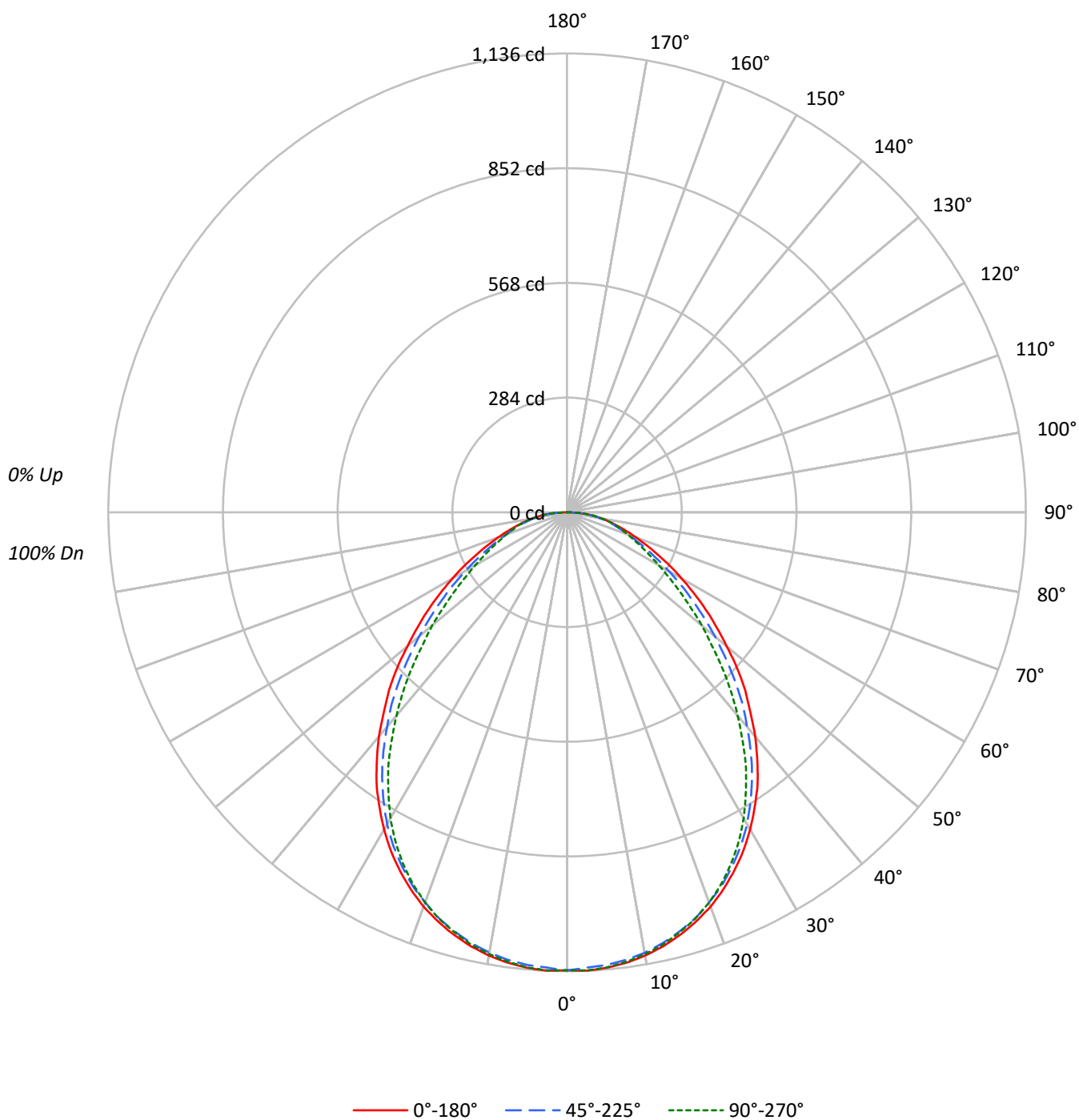
Input Watts (W): 22.506
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3051	3051	3051
5°	3058	3038	3055
10°	3044	3025	3034
15°	3017	2994	2999
20°	2975	2942	2944
25°	2907	2871	2852
30°	2818	2770	2717
35°	2702	2624	2537
40°	2545	2436	2308
45°	2373	2230	2064
50°	2158	2001	1823
55°	1964	1774	1589
60°	1762	1562	1411
65°	1571	1392	1297
70°	1429	1269	1255
75°	1335	1236	1298
80°	1342	1277	1351
85°	1402	1309	1494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	4.2
10°-20°	303.9	11.9
20°-30°	445.6	17.5
30°-40°	497.4	19.5
40°-50°	450.3	17.7
50°-60°	340.0	13.4
60°-70°	222.3	8.7
70°-80°	130.5	5.1
80°-90°	47.8	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°	856.8	33.7
0°-40°	1354.1	53.2
0°-60°	2144.4	84.3
0°-90°	2545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2545.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1132	1130	1125	1131	1131	107
15°	1083	1081	1075	1081	1076	305
25°	979	976	967	965	960	450
35°	823	815	799	781	772	512
45°	624	614	586	554	542	479
55°	419	409	378	348	339	375
65°	247	239	219	206	204	248
75°	128	125	119	121	125	138
85°	45	44	42	48	48	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1133.8	1133.8	1133.8	1133.8	1133.8
2.5°	1135.6	1133.8	1128.4	1135.6	1135.0
5°	1132.0	1129.6	1124.8	1131.4	1130.8
7.5°	1124.8	1122.4	1117.7	1123.6	1122.4
10°	1114.1	1111.7	1106.9	1113.5	1110.5
12.5°	1100.3	1097.9	1092.6	1098.5	1096.1
15°	1083.0	1081.2	1074.6	1080.6	1076.4
17.5°	1062.1	1059.1	1054.3	1057.9	1054.9
20°	1038.8	1035.2	1027.5	1031.0	1028.0
22.5°	1010.7	1005.9	1000.6	1000.6	996.4
25°	979.1	975.5	967.1	965.3	960.5
27.5°	945.0	942.0	931.3	928.3	919.9
30°	906.8	902.6	891.3	881.7	874.5
32.5°	864.4	861.4	845.9	833.3	823.2
35°	822.6	815.4	798.7	780.7	772.4
37.5°	773.6	768.2	747.3	725.2	713.8
40°	724.6	718.0	693.5	669.0	657.1
42.5°	671.4	665.5	642.2	612.9	600.3
45°	623.6	614.1	586.0	554.3	542.4
47.5°	571.1	560.9	531.0	497.6	483.9
50°	515.5	508.9	477.9	445.6	435.5
52.5°	465.9	455.8	426.5	394.9	384.1
55°	418.7	409.2	378.1	348.3	338.7
57.5°	371.6	360.8	333.9	307.0	297.5
60°	327.4	316.6	290.3	268.2	262.2
62.5°	287.3	275.4	252.1	234.8	230.6
65°	246.7	238.9	218.6	206.1	203.7
67.5°	212.7	203.1	187.0	181.0	179.8
70°	181.6	175.0	161.3	159.5	159.5
72.5°	153.5	148.1	138.0	139.2	141.0
75°	128.4	124.8	118.9	121.3	124.8
77.5°	106.9	103.3	99.8	103.3	105.7
80°	86.6	83.0	82.4	85.4	87.2
82.5°	65.1	62.1	62.7	67.5	69.3
85°	45.4	43.6	42.4	47.8	48.4
87.5°	23.3	22.1	21.5	25.7	24.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)