

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: P290912

Luminaire Tested: **14GR-LD5-28-F125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290912
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-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2734.0 lumens
Efficiency: N/A
Efficacy: 117.6 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

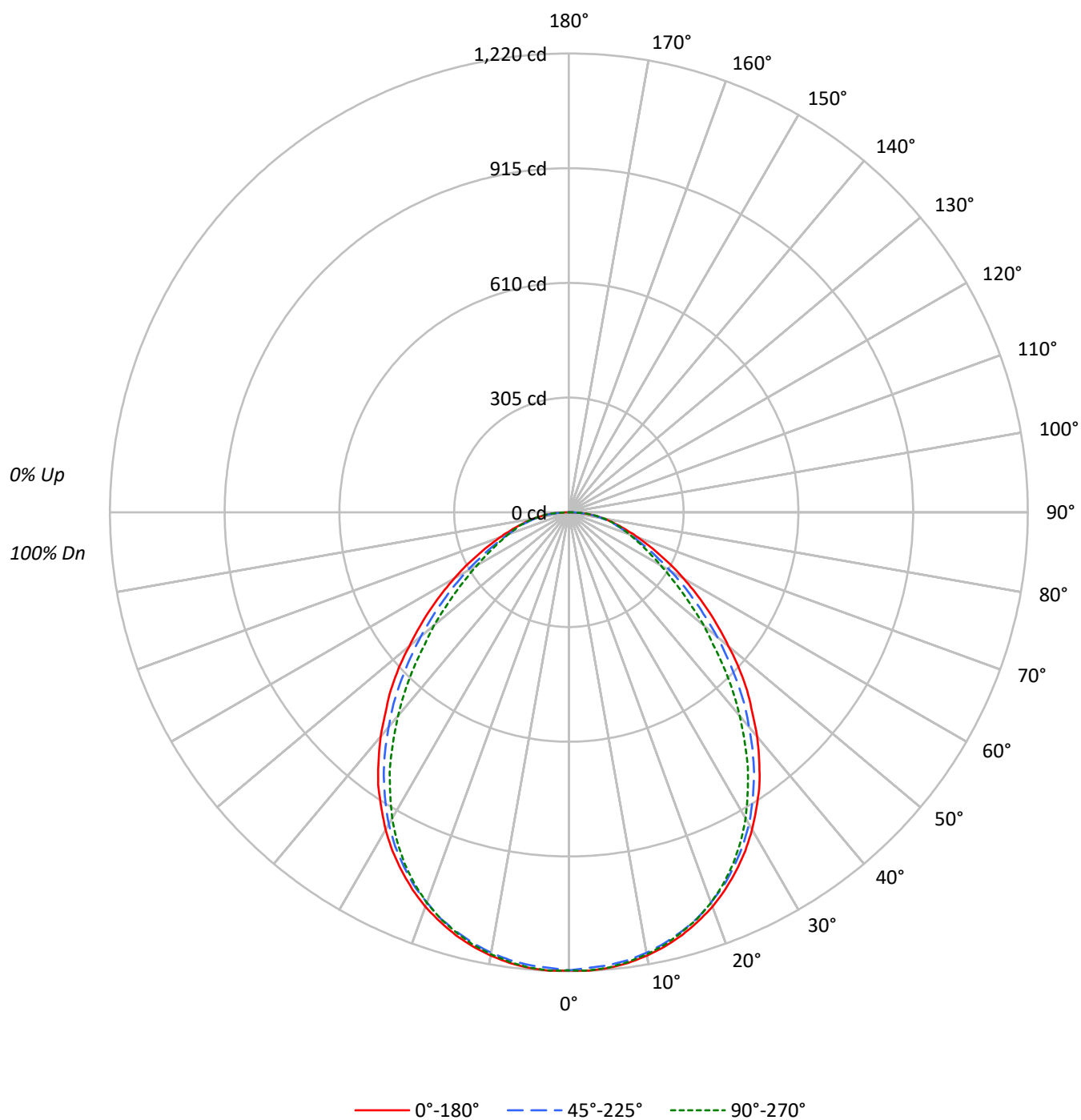
Input Watts (W): 23.25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3278	3278	3278
5°	3285	3264	3281
10°	3270	3249	3260
15°	3241	3216	3222
20°	3196	3161	3163
25°	3123	3085	3064
30°	3027	2975	2919
35°	2903	2819	2726
40°	2734	2617	2480
45°	2550	2396	2218
50°	2318	2149	1958
55°	2110	1906	1707
60°	1893	1679	1516
65°	1687	1496	1393
70°	1535	1364	1348
75°	1435	1328	1394
80°	1441	1373	1452
85°	1507	1408	1606



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.2	4.2
10°-20°	326.5	11.9
20°-30°	478.7	17.5
30°-40°	534.3	19.5
40°-50°	483.7	17.7
50°-60°	365.2	13.4
60°-70°	238.8	8.7
70°-80°	140.2	5.1
80°-90°	51.3	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°	920.4	33.7
0°-40°	1454.7	53.2
0°-60°	2303.7	84.3
0°-90°	2734.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2734.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1218	1218	1218	1218	1218	
5°	1216	1214	1208	1215	1215	115
15°	1163	1162	1154	1161	1156	328
25°	1052	1048	1039	1037	1032	484
35°	884	876	858	839	830	550
45°	670	660	630	596	583	515
55°	450	440	406	374	364	402
65°	265	257	235	221	219	266
75°	138	134	128	130	134	148
85°	49	47	46	51	52	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1218.0	1218.0	1218.0	1218.0	1218.0
2.5°	1219.9	1218.0	1212.2	1219.9	1219.3
5°	1216.1	1213.5	1208.4	1215.4	1214.8
7.5°	1208.4	1205.8	1200.7	1207.1	1205.8
10°	1196.8	1194.2	1189.1	1196.2	1193.0
12.5°	1182.0	1179.5	1173.7	1180.1	1177.6
15°	1163.4	1161.5	1154.4	1160.9	1156.4
17.5°	1141.0	1137.8	1132.6	1136.5	1133.3
20°	1115.9	1112.1	1103.8	1107.6	1104.4
22.5°	1085.8	1080.7	1074.9	1074.9	1070.4
25°	1051.8	1047.9	1038.9	1037.0	1031.9
27.5°	1015.2	1012.0	1000.4	997.2	988.2
30°	974.1	969.6	957.4	947.2	939.5
32.5°	928.6	925.4	908.7	895.2	884.3
35°	883.6	875.9	858.0	838.7	829.7
37.5°	831.0	825.2	802.8	779.0	766.9
40°	778.4	771.3	745.0	718.7	705.9
42.5°	721.3	714.9	689.8	658.4	644.9
45°	670.0	659.7	629.5	595.5	582.7
47.5°	613.5	602.6	570.5	534.6	519.8
50°	553.8	546.7	513.4	478.7	467.8
52.5°	500.5	489.6	458.2	424.2	412.6
55°	449.8	439.6	406.2	374.1	363.9
57.5°	399.1	387.6	358.7	329.8	319.6
60°	351.7	340.1	311.9	288.1	281.7
62.5°	308.7	295.8	270.8	252.2	247.7
65°	265.0	256.7	234.9	221.4	218.8
67.5°	228.5	218.2	200.9	194.4	193.2
70°	195.1	188.0	173.3	171.3	171.3
72.5°	164.9	159.1	148.2	149.5	151.4
75°	138.0	134.1	127.7	130.3	134.1
77.5°	114.9	111.0	107.2	111.0	113.6
80°	93.0	89.2	88.6	91.8	93.7
82.5°	69.9	66.7	67.4	72.5	74.4
85°	48.8	46.8	45.6	51.3	52.0
87.5°	25.0	23.7	23.1	27.6	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)