

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: P290866

Luminaire Tested: **14GR-LD5-32-F125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290866
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-LD5-32-F125-UNV-L93050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2544.0 lumens
Efficiency: N/A
Efficacy: 97.0 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

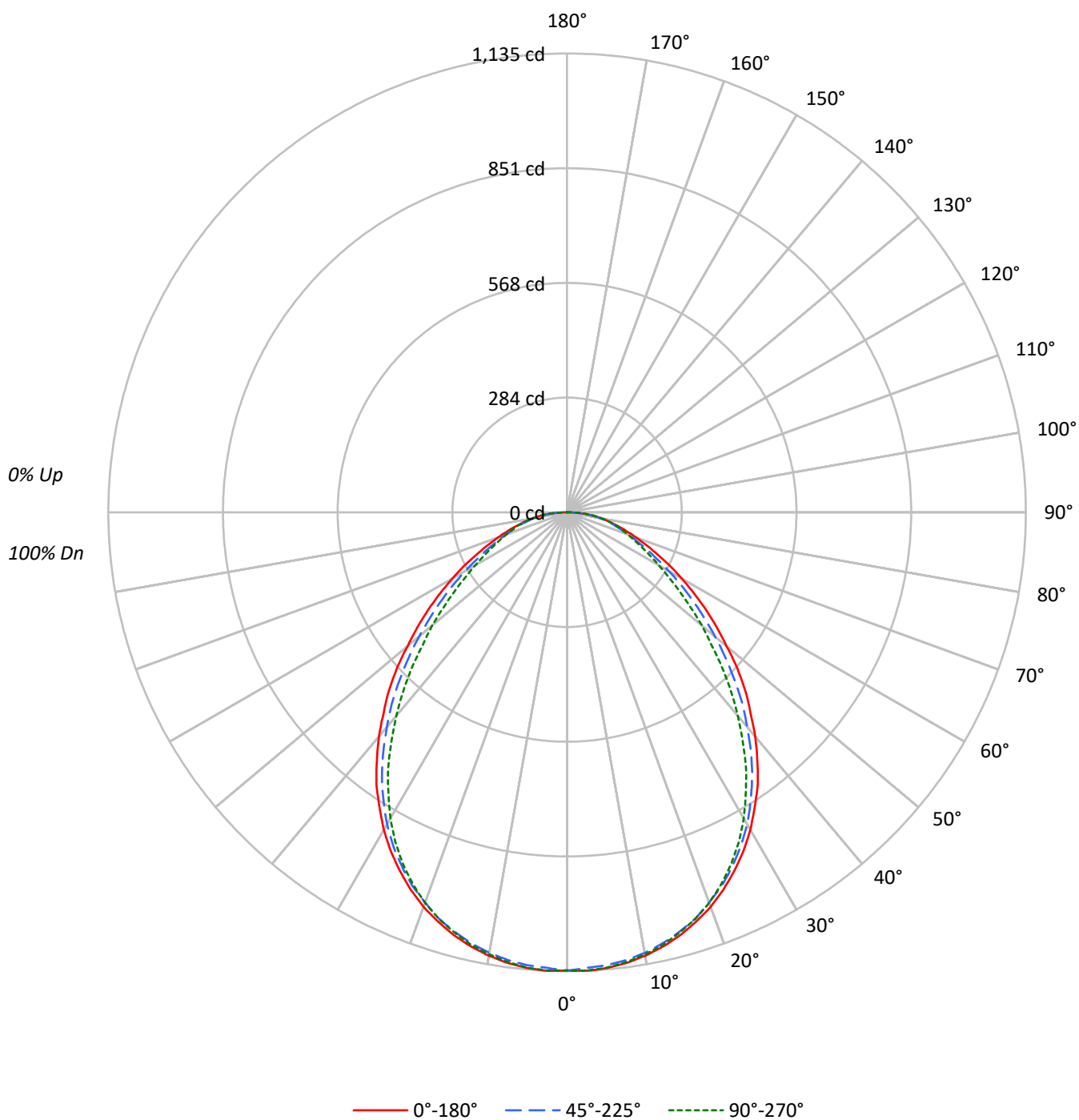
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3050	3050	3050
5°	3056	3037	3054
10°	3043	3024	3033
15°	3016	2993	2998
20°	2974	2941	2943
25°	2906	2870	2851
30°	2816	2768	2716
35°	2701	2623	2536
40°	2544	2435	2307
45°	2372	2229	2063
50°	2157	2000	1822
55°	1964	1773	1589
60°	1761	1562	1411
65°	1570	1391	1296
70°	1428	1268	1254
75°	1335	1235	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°	303.8	11.9
20°-30°	445.4	17.5
30°-40°	497.2	19.5
40°-50°	450.1	17.7
50°-60°	339.9	13.4
60°-70°	222.2	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°	856.4	33.7
0°-40°	1353.6	53.2
0°-60°	2143.6	84.3
0°-90°	2544.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2544.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1133	1133	1133	1133	1133	
5°	1132	1129	1124	1131	1130	107
15°	1083	1081	1074	1080	1076	305
25°	979	975	967	965	960	450
35°	822	815	798	780	772	512
45°	623	614	586	554	542	479
55°	419	409	378	348	339	375
65°	247	239	218	206	204	247
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°	1133.3	1133.3	1133.3	1133.3	1133.3
2.5°	1135.1	1133.3	1128.0	1135.1	1134.5
5°	1131.5	1129.2	1124.4	1130.9	1130.4
7.5°	1124.4	1122.0	1117.2	1123.2	1122.0
10°	1113.6	1111.2	1106.5	1113.0	1110.0
12.5°	1099.9	1097.5	1092.1	1098.1	1095.7
15°	1082.6	1080.8	1074.2	1080.2	1076.0
17.5°	1061.7	1058.7	1053.9	1057.5	1054.5
20°	1038.4	1034.8	1027.0	1030.6	1027.6
22.5°	1010.3	1005.6	1000.2	1000.2	996.0
25°	978.7	975.1	966.7	964.9	960.2
27.5°	944.6	941.7	930.9	927.9	919.6
30°	906.4	902.3	890.9	881.4	874.2
32.5°	864.0	861.0	845.5	833.0	822.8
35°	822.2	815.1	798.4	780.4	772.1
37.5°	773.3	767.9	747.0	724.9	713.6
40°	724.3	717.7	693.3	668.8	656.8
42.5°	671.2	665.2	641.9	612.6	600.1
45°	623.4	613.8	585.8	554.1	542.2
47.5°	570.8	560.7	530.8	497.4	483.7
50°	515.3	508.7	477.7	445.5	435.3
52.5°	465.8	455.6	426.3	394.7	383.9
55°	418.6	409.0	378.0	348.1	338.6
57.5°	371.4	360.7	333.8	306.9	297.4
60°	327.2	316.5	290.2	268.1	262.1
62.5°	287.2	275.3	252.0	234.7	230.5
65°	246.6	238.8	218.5	206.0	203.6
67.5°	212.6	203.0	186.9	180.9	179.7
70°	181.5	175.0	161.2	159.4	159.4
72.5°	153.5	148.1	137.9	139.1	140.9
75°	128.4	124.8	118.8	121.2	124.8
77.5°	106.9	103.3	99.7	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)