

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: P290871

Luminaire Tested: **14GR-LD5-36-F125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290871  
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-LD5-36-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: 2844.0 lumens  
Efficiency: N/A  
Efficacy: 95.0 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

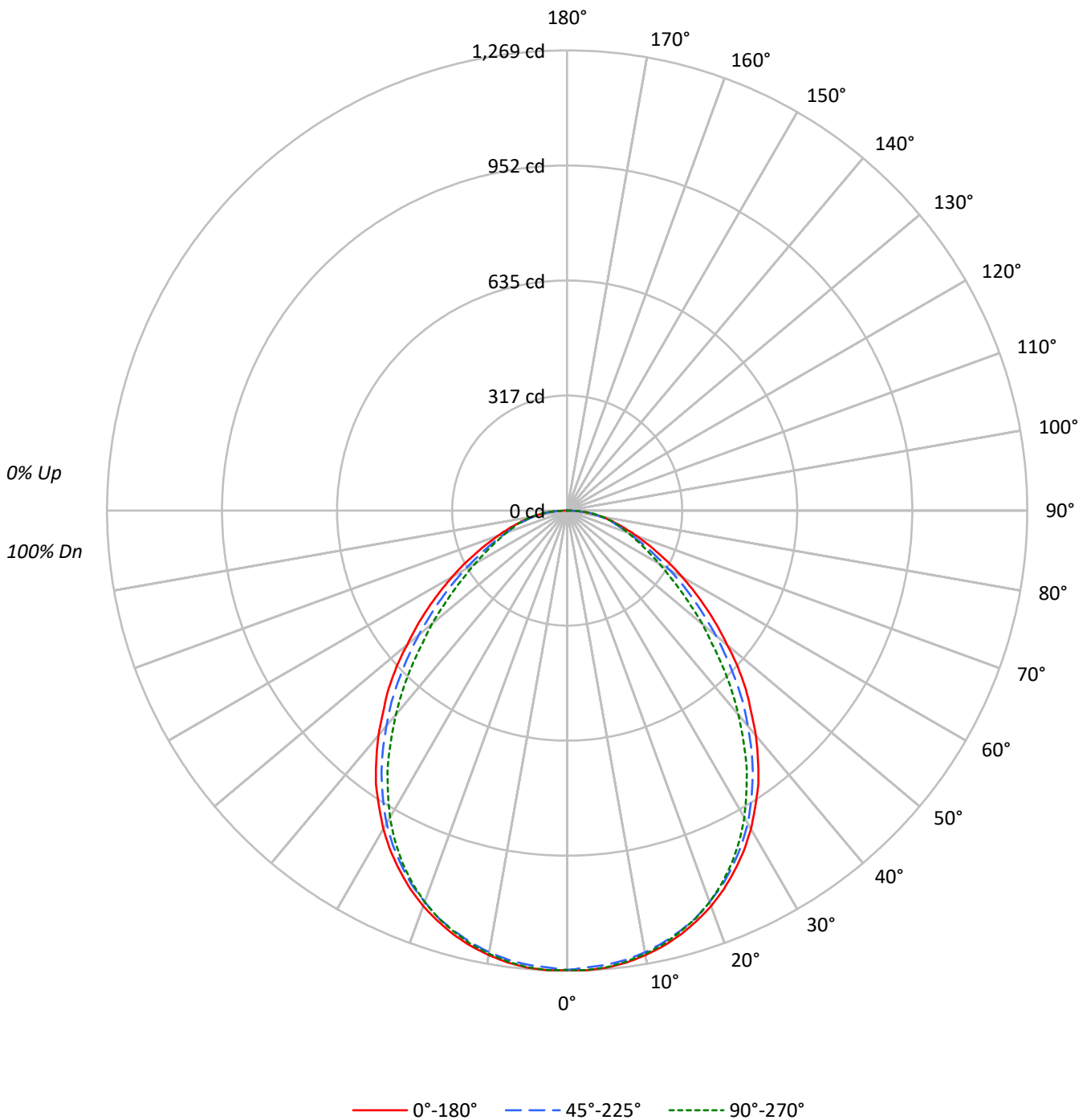
Input Watts (W): 29.946  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85					85			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28					28			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3409	3409	3409
5°	3417	3395	3413
10°	3402	3380	3391
15°	3372	3346	3351
20°	3324	3288	3290
25°	3249	3209	3187
30°	3149	3095	3037
35°	3020	2932	2835
40°	2844	2722	2579
45°	2652	2492	2307
50°	2412	2236	2037
55°	2195	1983	1776
60°	1969	1746	1577
65°	1755	1556	1449
70°	1596	1418	1402
75°	1492	1381	1450
80°	1500	1427	1511
85°	1565	1463	1670



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.8	4.2
10°-20°	339.6	11.9
20°-30°	498.0	17.5
30°-40°	555.8	19.5
40°-50°	503.2	17.7
50°-60°	379.9	13.4
60°-70°	248.4	8.7
70°-80°	145.9	5.1
80°-90°	53.4	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°	957.4	33.7
0°-40°	1513.2	53.2
0°-60°	2396.4	84.3
0°-90°	2844.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2844.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1267	1267	1267	1267	1267	
5°	1265	1262	1257	1264	1264	120
15°	1210	1208	1201	1208	1203	341
25°	1094	1090	1081	1079	1073	503
35°	919	911	892	872	863	572
45°	697	686	655	620	606	535
55°	468	457	423	389	378	419
65°	276	267	244	230	228	277
75°	144	140	133	136	140	154
85°	51	49	47	53	54	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1267.0	1267.0	1267.0	1267.0	1267.0
2.5°	1269.0	1267.0	1261.0	1269.0	1268.3
5°	1265.0	1262.3	1257.0	1264.3	1263.6
7.5°	1257.0	1254.3	1249.0	1255.6	1254.3
10°	1245.0	1242.3	1236.9	1244.3	1241.0
12.5°	1229.6	1226.9	1220.9	1227.6	1224.9
15°	1210.2	1208.2	1200.9	1207.6	1202.9
17.5°	1186.9	1183.5	1178.2	1182.2	1178.9
20°	1160.8	1156.8	1148.2	1152.2	1148.8
22.5°	1129.5	1124.1	1118.1	1118.1	1113.5
25°	1094.1	1090.1	1080.7	1078.7	1073.4
27.5°	1056.0	1052.7	1040.7	1037.4	1028.0
30°	1013.3	1008.6	996.0	985.3	977.3
32.5°	965.9	962.6	945.2	931.2	919.9
35°	919.2	911.2	892.5	872.5	863.1
37.5°	864.5	858.5	835.1	810.4	797.7
40°	809.7	802.4	775.0	747.6	734.3
42.5°	750.3	743.6	717.6	684.9	670.9
45°	696.9	686.2	654.9	619.5	606.1
47.5°	638.2	626.8	593.4	556.1	540.7
50°	576.1	568.7	534.0	498.0	486.6
52.5°	520.7	509.3	476.6	441.2	429.2
55°	467.9	457.3	422.6	389.2	378.5
57.5°	415.2	403.2	373.2	343.1	332.4
60°	365.8	353.8	324.4	299.7	293.0
62.5°	321.1	307.7	281.7	262.3	257.7
65°	275.7	267.0	244.3	230.3	227.6
67.5°	237.6	227.0	208.9	202.3	200.9
70°	202.9	195.6	180.2	178.2	178.2
72.5°	171.6	165.5	154.2	155.5	157.5
75°	143.5	139.5	132.8	135.5	139.5
77.5°	119.5	115.5	111.5	115.5	118.2
80°	96.8	92.8	92.1	95.5	97.5
82.5°	72.8	69.4	70.1	75.4	77.4
85°	50.7	48.7	47.4	53.4	54.1
87.5°	26.0	24.7	24.0	28.7	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)