

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: P291256

Luminaire Tested: **14GR-LD5-28-A125-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P291256  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-28-A125-UNV-L93050-W2A1-U-4500K  
Description: GRLED 1x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2723.0 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

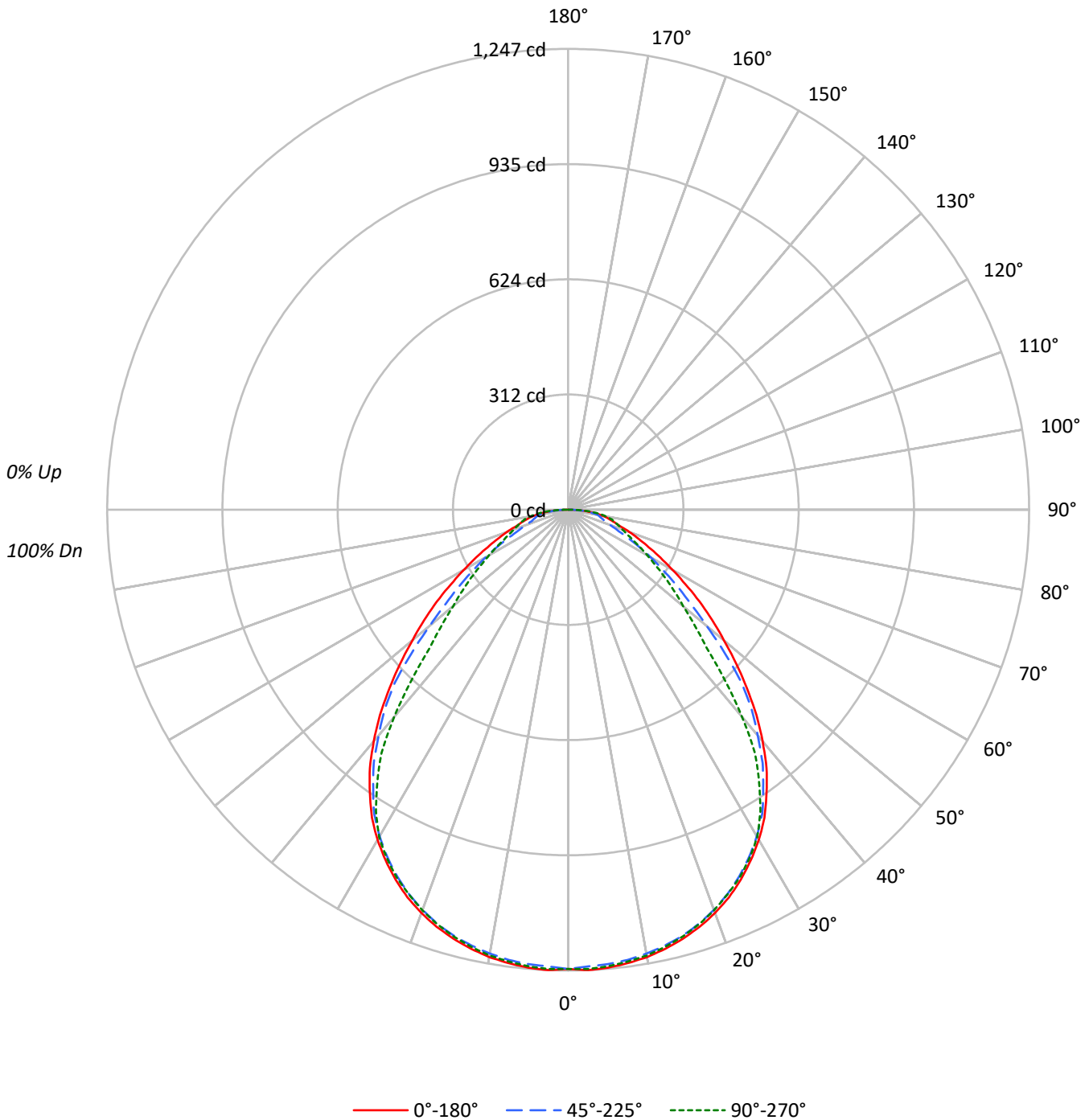
Input Watts (W): 23.157  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30

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

	0°	45°	90°
0°	3344	3344	3344
5°	3360	3334	3350
10°	3359	3333	3347
15°	3347	3326	3331
20°	3325	3300	3303
25°	3281	3251	3260
30°	3205	3170	3178
35°	3074	3022	2957
40°	2874	2803	2572
45°	2601	2527	2017
50°	2301	2044	1701
55°	2036	1681	1499
60°	1758	1391	1329
65°	1529	1106	1223
70°	1382	950	1223
75°	1327	992	1366
80°	1478	1263	1596
85°	1559	1346	1911



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.9	4.3
10°-20°	337.8	12.4
20°-30°	505.5	18.6
30°-40°	572.2	21.0
40°-50°	487.4	17.9
50°-60°	330.0	12.1
60°-70°	197.0	7.2
70°-80°	123.1	4.5
80°-90°	52.0	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°	961.2	35.3
0°-40°	1533.4	56.3
0°-60°	2350.8	86.3
0°-90°	2723.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2723.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1243	1243	1243	1243	1243	
5°	1244	1241	1234	1242	1240	118
15°	1202	1197	1194	1202	1196	339
25°	1105	1102	1095	1100	1098	508
35°	936	930	920	910	900	583
45°	684	685	664	566	530	527
55°	434	410	358	320	320	388
65°	240	200	174	186	192	242
75°	128	114	95	125	131	138
85°	50	47	44	55	62	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1242.6	1242.6	1242.6	1242.6	1242.6
2.5°	1247.0	1243.9	1236.9	1245.1	1243.9
5°	1243.9	1240.7	1234.4	1242.0	1240.1
7.5°	1237.5	1234.4	1228.7	1236.3	1233.1
10°	1229.3	1225.5	1219.8	1228.1	1224.9
12.5°	1216.7	1212.9	1207.8	1216.1	1211.6
15°	1201.5	1197.1	1193.9	1201.5	1195.8
17.5°	1183.2	1179.4	1175.0	1182.6	1176.3
20°	1161.1	1157.9	1152.3	1156.7	1153.5
22.5°	1135.8	1131.4	1125.7	1130.8	1126.4
25°	1104.9	1101.7	1094.8	1099.8	1097.9
27.5°	1069.5	1067.6	1059.4	1065.7	1062.6
30°	1031.6	1026.5	1020.2	1022.1	1022.8
32.5°	988.0	981.7	976.6	972.2	967.8
35°	935.6	929.9	919.8	910.3	900.2
37.5°	881.2	873.7	863.6	842.7	830.1
40°	818.1	814.3	797.9	768.8	732.2
42.5°	753.6	749.8	735.3	670.3	630.5
45°	683.5	685.4	663.9	566.0	530.0
47.5°	616.6	621.6	574.9	483.3	464.3
50°	549.6	555.3	488.3	417.6	406.2
52.5°	490.8	486.4	416.3	366.4	361.3
55°	434.0	410.0	358.2	319.6	319.6
57.5°	375.9	341.8	304.5	279.9	279.9
60°	326.6	284.3	258.4	241.9	247.0
62.5°	281.1	236.3	214.2	211.0	217.3
65°	240.1	200.3	173.7	185.7	192.0
67.5°	206.6	171.2	142.8	168.0	171.8
70°	175.6	149.1	120.7	154.8	155.4
72.5°	147.2	131.4	103.6	140.2	142.8
75°	127.6	114.3	95.4	125.1	131.4
77.5°	111.8	97.9	87.8	108.0	120.0
80°	95.4	80.2	81.5	91.0	103.0
82.5°	73.3	61.9	64.4	74.5	84.0
85°	50.5	46.7	43.6	55.0	61.9
87.5°	27.2	25.3	22.1	31.0	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)