

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: P291263

Luminaire Tested: **14GR-LD5-36-A125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291263
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-LD5-36-A125-UNV-L93050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2877.0 lumens
Efficiency: N/A
Efficacy: 96.1 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

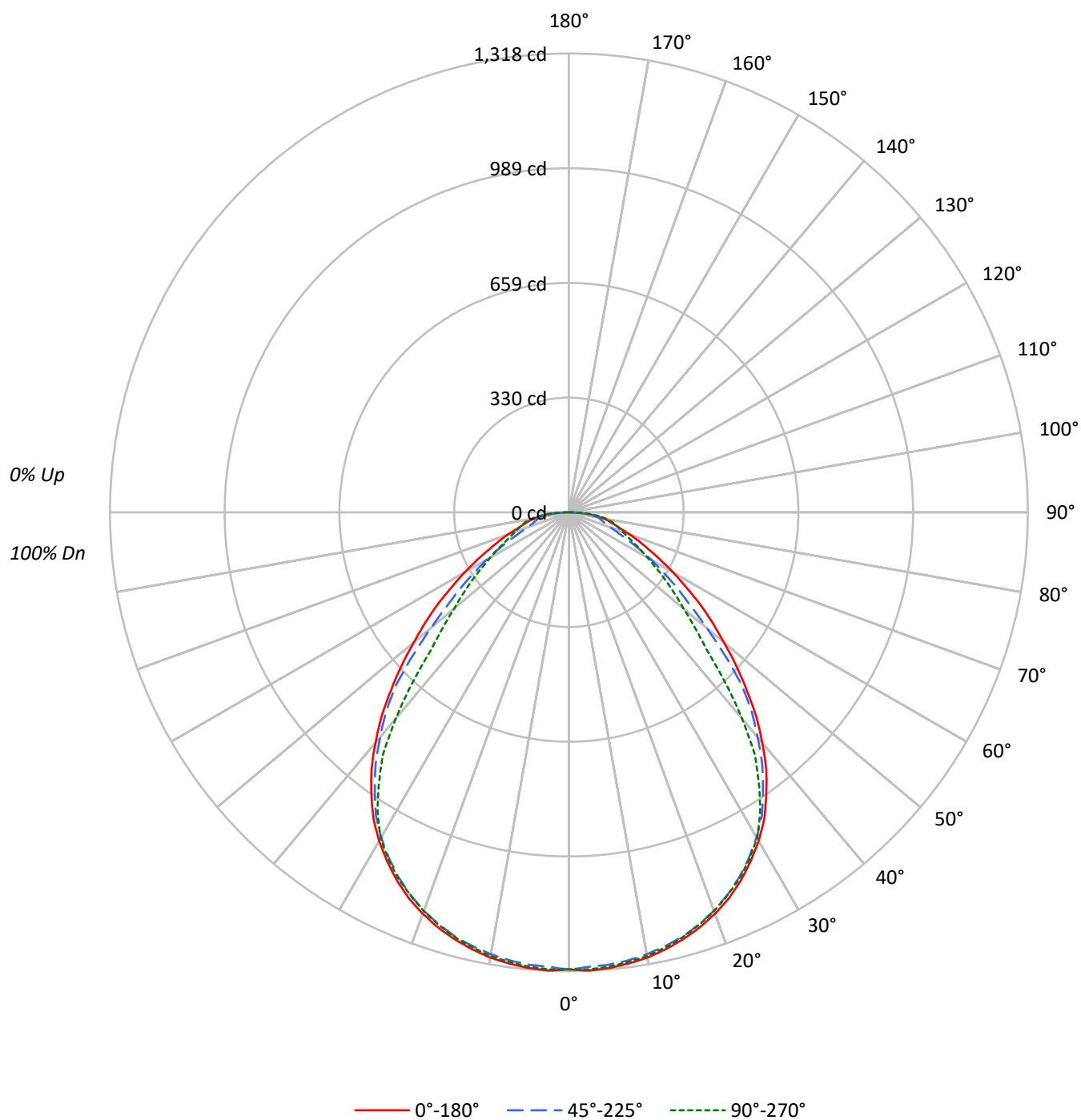
Input Watts (W): 29.946
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3533	3533	3533
5°	3550	3523	3539
10°	3549	3522	3536
15°	3537	3514	3520
20°	3513	3486	3490
25°	3466	3434	3444
30°	3387	3349	3358
35°	3247	3192	3124
40°	3036	2961	2718
45°	2748	2670	2131
50°	2431	2160	1797
55°	2151	1775	1584
60°	1857	1469	1405
65°	1615	1168	1292
70°	1459	1003	1292
75°	1402	1048	1443
80°	1562	1334	1686
85°	1649	1423	2019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	4.3
10°-20°	356.9	12.4
20°-30°	534.1	18.6
30°-40°	604.6	21.0
40°-50°	515.0	17.9
50°-60°	348.7	12.1
60°-70°	208.2	7.2
70°-80°	130.1	4.5
80°-90°	55.0	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°	1015.5	35.3
0°-40°	1620.1	56.3
0°-60°	2483.8	86.3
0°-90°	2877.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2877.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1313	1313	1313	1313	1313	
5°	1314	1311	1304	1312	1310	125
15°	1270	1265	1262	1270	1264	358
25°	1167	1164	1157	1162	1160	537
35°	988	982	972	962	951	616
45°	722	724	702	598	560	557
55°	458	433	378	338	338	410
65°	254	212	184	196	203	256
75°	135	121	101	132	139	146
85°	53	49	46	58	65	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1312.9	1312.9	1312.9	1312.9	1312.9
2.5°	1317.5	1314.2	1306.9	1315.5	1314.2
5°	1314.2	1310.9	1304.2	1312.2	1310.2
7.5°	1307.5	1304.2	1298.2	1306.2	1302.9
10°	1298.8	1294.8	1288.8	1297.5	1294.2
12.5°	1285.5	1281.5	1276.2	1284.8	1280.2
15°	1269.5	1264.8	1261.5	1269.5	1263.5
17.5°	1250.1	1246.1	1241.4	1249.5	1242.8
20°	1226.8	1223.4	1217.4	1222.1	1218.8
22.5°	1200.1	1195.4	1189.4	1194.7	1190.1
25°	1167.4	1164.0	1156.7	1162.0	1160.0
27.5°	1130.0	1128.0	1119.3	1126.0	1122.6
30°	1089.9	1084.6	1077.9	1079.9	1080.6
32.5°	1043.9	1037.2	1031.9	1027.2	1022.5
35°	988.5	982.5	971.8	961.8	951.1
37.5°	931.1	923.1	912.4	890.4	877.0
40°	864.3	860.3	843.0	812.3	773.6
42.5°	796.3	792.3	776.9	708.2	666.1
45°	722.2	724.2	701.5	598.0	560.0
47.5°	651.4	656.8	607.4	510.6	490.6
50°	580.7	586.7	515.9	441.2	429.2
52.5°	518.6	513.9	439.8	387.1	381.8
55°	458.5	433.2	378.4	337.7	337.7
57.5°	397.1	361.1	321.7	295.7	295.7
60°	345.1	300.4	273.0	255.6	261.0
62.5°	297.0	249.6	226.3	222.9	229.6
65°	253.6	211.6	183.5	196.2	202.9
67.5°	218.3	180.9	150.8	177.5	181.5
70°	185.5	157.5	127.5	163.5	164.2
72.5°	155.5	138.8	109.5	148.2	150.8
75°	134.8	120.8	100.8	132.2	138.8
77.5°	118.1	103.5	92.8	114.1	126.8
80°	100.8	84.8	86.1	96.1	108.8
82.5°	77.4	65.4	68.1	78.8	88.8
85°	53.4	49.4	46.1	58.1	65.4
87.5°	28.7	26.7	23.4	32.7	33.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)