

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: P291300

Luminaire Tested: **14GR-LD5-28-A125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291300
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-L92765-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: 2641.0 lumens
Efficiency: N/A
Efficacy: 116.9 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

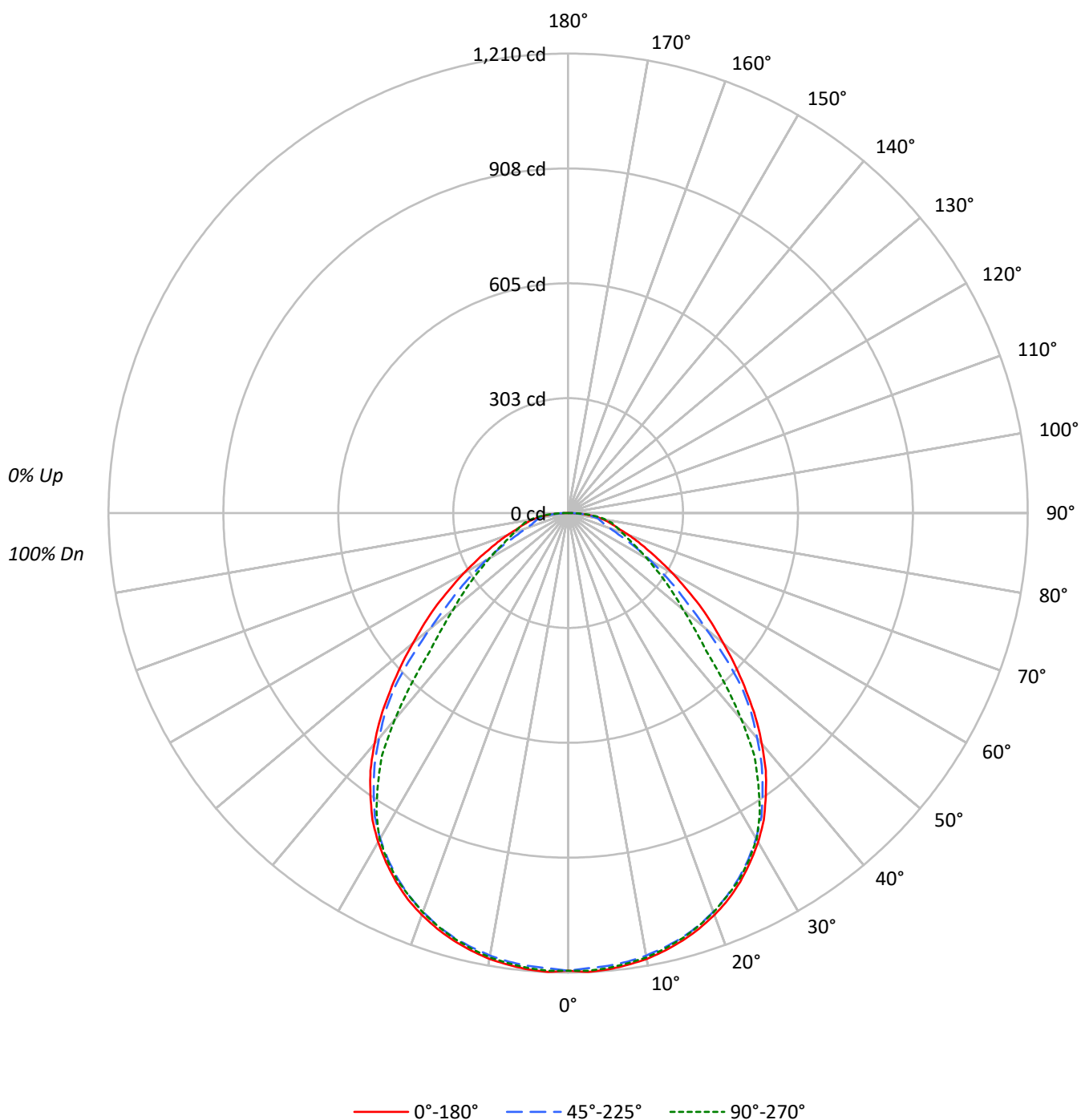
Input Watts (W): 22.599
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3243	3243	3243
5°	3259	3234	3249
10°	3258	3233	3246
15°	3246	3226	3231
20°	3225	3200	3204
25°	3182	3153	3162
30°	3109	3075	3082
35°	2981	2931	2868
40°	2787	2718	2494
45°	2523	2450	1956
50°	2231	1983	1649
55°	1975	1630	1454
60°	1705	1349	1290
65°	1482	1073	1186
70°	1340	921	1186
75°	1287	962	1325
80°	1433	1224	1548
85°	1513	1306	1853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.3	4.3
10°-20°	327.6	12.4
20°-30°	490.3	18.6
30°-40°	555.0	21.0
40°-50°	472.7	17.9
50°-60°	320.1	12.1
60°-70°	191.1	7.2
70°-80°	119.4	4.5
80°-90°	50.5	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°	932.2	35.3
0°-40°	1487.2	56.3
0°-60°	2280.0	86.3
0°-90°	2641.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2641.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1205	1205	1205	1205	1205	
5°	1206	1203	1197	1205	1203	115
15°	1165	1161	1158	1165	1160	329
25°	1072	1068	1062	1067	1065	493
35°	907	902	892	883	873	566
45°	663	665	644	549	514	511
55°	421	398	347	310	310	376
65°	233	194	168	180	186	235
75°	124	111	92	121	127	134
85°	49	45	42	53	60	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1205.2	1205.2	1205.2	1205.2	1205.2
2.5°	1209.5	1206.4	1199.7	1207.6	1206.4
5°	1206.4	1203.3	1197.2	1204.6	1202.7
7.5°	1200.3	1197.2	1191.7	1199.0	1196.0
10°	1192.3	1188.6	1183.1	1191.1	1188.0
12.5°	1180.1	1176.4	1171.5	1179.4	1175.1
15°	1165.3	1161.1	1158.0	1165.3	1159.8
17.5°	1147.6	1143.9	1139.6	1147.0	1140.8
20°	1126.1	1123.1	1117.6	1121.8	1118.8
22.5°	1101.6	1097.3	1091.8	1096.7	1092.4
25°	1071.6	1068.5	1061.8	1066.7	1064.9
27.5°	1037.3	1035.5	1027.5	1033.6	1030.6
30°	1000.5	995.6	989.5	991.3	992.0
32.5°	958.3	952.1	947.2	942.9	938.6
35°	907.4	901.9	892.1	882.9	873.1
37.5°	854.7	847.4	837.6	817.3	805.1
40°	793.4	789.8	773.8	745.6	710.1
42.5°	730.9	727.3	713.2	650.1	611.5
45°	662.9	664.8	643.9	549.0	514.1
47.5°	598.0	602.9	557.6	468.7	450.3
50°	533.0	538.6	473.6	405.0	394.0
52.5°	476.1	471.8	403.8	355.4	350.5
55°	420.9	397.6	347.4	310.0	310.0
57.5°	364.6	331.5	295.3	271.4	271.4
60°	316.8	275.7	250.6	234.7	239.6
62.5°	272.6	229.1	207.7	204.6	210.8
65°	232.8	194.2	168.5	180.1	186.3
67.5°	200.4	166.0	138.5	163.0	166.7
70°	170.3	144.6	117.0	150.1	150.7
72.5°	142.8	127.4	100.5	136.0	138.5
75°	123.8	110.9	92.5	121.3	127.4
77.5°	108.4	95.0	85.2	104.8	116.4
80°	92.5	77.8	79.0	88.2	99.9
82.5°	71.1	60.0	62.5	72.3	81.5
85°	49.0	45.3	42.3	53.3	60.0
87.5°	26.3	24.5	21.4	30.0	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)