

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: P291299

Luminaire Tested: **14GR-LD5-28-A125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291299
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-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2574.0 lumens
Efficiency: N/A
Efficacy: 114.4 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

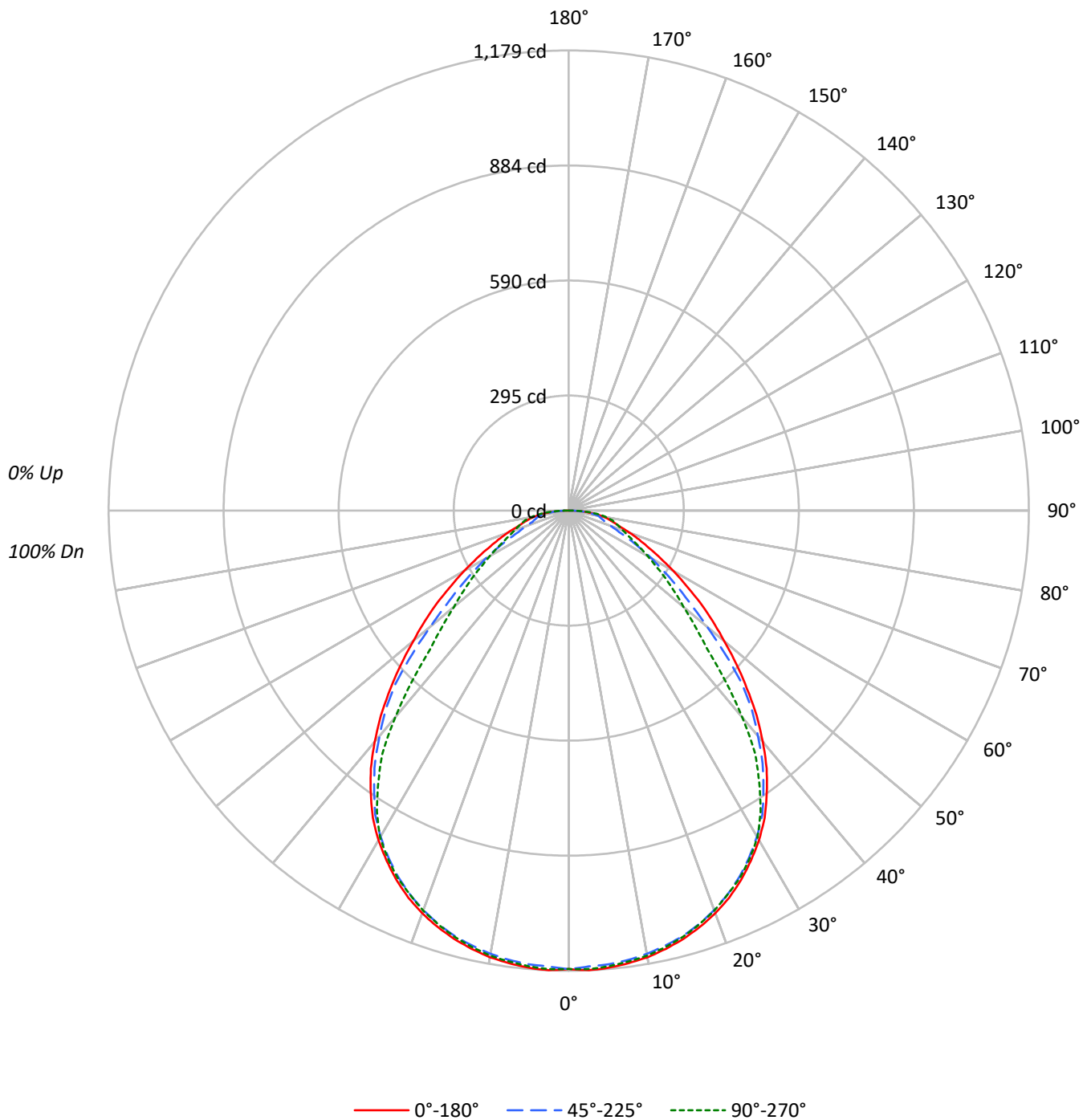
Input Watts (W): 22.506
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3161	3161	3161
5°	3176	3152	3166
10°	3175	3151	3164
15°	3164	3144	3149
20°	3143	3119	3123
25°	3101	3073	3081
30°	3030	2997	3004
35°	2905	2856	2795
40°	2716	2649	2431
45°	2459	2388	1907
50°	2175	1932	1608
55°	1924	1589	1418
60°	1661	1314	1257
65°	1445	1046	1156
70°	1306	898	1156
75°	1254	938	1291
80°	1398	1193	1508
85°	1476	1272	1806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	4.3
10°-20°	319.3	12.4
20°-30°	477.8	18.6
30°-40°	540.9	21.0
40°-50°	460.7	17.9
50°-60°	312.0	12.1
60°-70°	186.2	7.2
70°-80°	116.4	4.5
80°-90°	49.2	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°	908.6	35.3
0°-40°	1449.5	56.3
0°-60°	2222.2	86.3
0°-90°	2574.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2574.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1175	1175	1175	1175	1175	
5°	1176	1173	1167	1174	1172	112
15°	1136	1132	1129	1136	1130	320
25°	1044	1041	1035	1040	1038	480
35°	884	879	870	860	851	551
45°	646	648	628	535	501	498
55°	410	388	339	302	302	367
65°	227	189	164	176	182	229
75°	121	108	90	118	124	130
85°	48	44	41	52	58	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1174.6	1174.6	1174.6	1174.6	1174.6
2.5°	1178.8	1175.8	1169.2	1177.0	1175.8
5°	1175.8	1172.8	1166.8	1174.0	1172.2
7.5°	1169.8	1166.8	1161.5	1168.6	1165.6
10°	1162.1	1158.5	1153.1	1160.9	1157.9
12.5°	1150.1	1146.5	1141.8	1149.5	1145.3
15°	1135.8	1131.6	1128.6	1135.8	1130.4
17.5°	1118.5	1114.9	1110.7	1117.9	1111.9
20°	1097.6	1094.6	1089.2	1093.4	1090.4
22.5°	1073.7	1069.5	1064.1	1068.9	1064.7
25°	1044.4	1041.4	1034.9	1039.6	1037.8
27.5°	1011.0	1009.2	1001.4	1007.4	1004.4
30°	975.1	970.4	964.4	966.2	966.8
32.5°	933.9	928.0	923.2	919.0	914.8
35°	884.4	879.0	869.5	860.5	850.9
37.5°	833.0	825.9	816.3	796.6	784.7
40°	773.3	769.7	754.2	726.7	692.1
42.5°	712.4	708.8	695.1	633.6	596.0
45°	646.1	647.9	627.6	535.0	501.0
47.5°	582.8	587.6	543.4	456.8	438.9
50°	519.5	524.9	461.6	394.7	384.0
52.5°	464.0	459.8	393.5	346.3	341.6
55°	410.2	387.6	338.6	302.2	302.2
57.5°	355.3	323.1	287.8	264.5	264.5
60°	308.7	268.7	244.2	228.7	233.5
62.5°	265.7	223.3	202.4	199.4	205.4
65°	226.9	189.3	164.2	175.6	181.5
67.5°	195.3	161.8	135.0	158.8	162.4
70°	166.0	140.9	114.1	146.3	146.9
72.5°	139.1	124.2	97.9	132.6	135.0
75°	120.6	108.1	90.2	118.2	124.2
77.5°	105.7	92.6	83.0	102.1	113.5
80°	90.2	75.8	77.0	86.0	97.3
82.5°	69.3	58.5	60.9	70.5	79.4
85°	47.8	44.2	41.2	52.0	58.5
87.5°	25.7	23.9	20.9	29.3	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)