

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: P291105

Luminaire Tested: **14GR-LD5-28-A-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-28-A-UNV-L92765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2692.0 lumens
Efficiency: N/A
Efficacy: 118.1 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

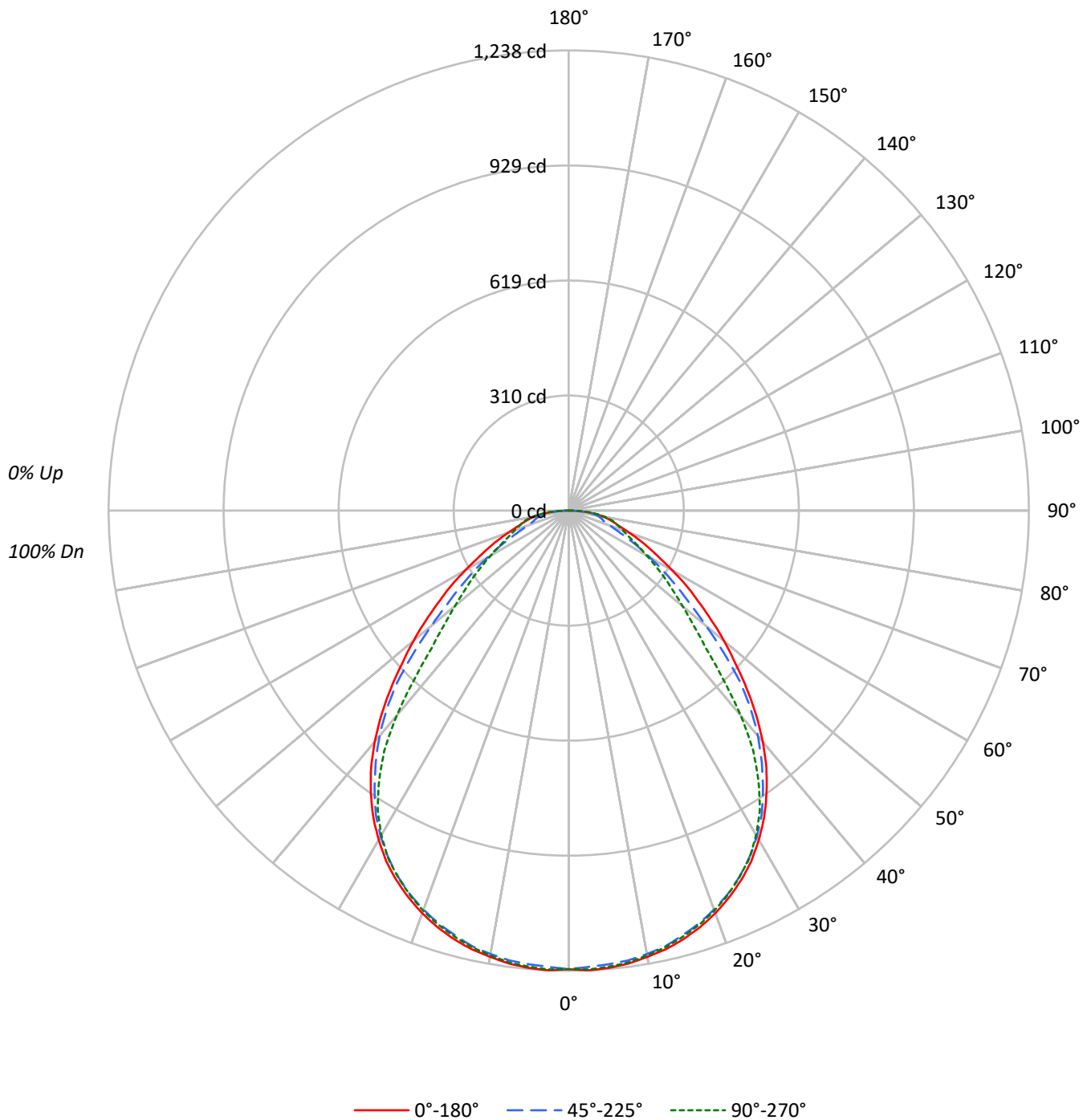
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		86
2	101	94	88	83	99	92	86	82	88	84	80		85	81	78		74
3	93	84	76	71	91	82	75	70	79	74	69		77	72	68		64
4	86	75	67	61	84	74	67	61	72	65	60		69	64	59		56
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		50
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		44
7	69	57	48	43	67	56	48	43	54	47	42		53	47	42		40
8	65	52	44	38	63	51	44	38	50	43	38		49	43	38		36
9	61	48	40	35	59	47	40	35	46	39	35		45	39	35		33
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3320	3320	3320
5°	3336	3310	3327
10°	3331	3311	3319
15°	3325	3295	3306
20°	3302	3271	3280
25°	3258	3227	3228
30°	3178	3145	3132
35°	3048	2993	2925
40°	2853	2781	2530
45°	2577	2479	1977
50°	2285	2013	1672
55°	1995	1651	1476
60°	1730	1359	1302
65°	1517	1091	1202
70°	1352	924	1210
75°	1319	975	1352
80°	1463	1230	1550
85°	1525	1312	1815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.0	4.3
10°-20°	335.3	12.5
20°-30°	501.6	18.6
30°-40°	566.2	21.0
40°-50°	480.3	17.8
50°-60°	325.0	12.1
60°-70°	194.0	7.2
70°-80°	121.5	4.5
80°-90°	51.1	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°	953.9	35.4
0°-40°	1520.1	56.5
0°-60°	2325.4	86.4
0°-90°	2692.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2692.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1234	1234	1234	1234	1234	
5°	1235	1231	1226	1234	1232	117
15°	1194	1191	1183	1191	1187	337
25°	1097	1094	1087	1092	1087	505
35°	928	922	911	903	890	578
45°	677	680	652	558	520	522
55°	425	405	352	315	314	383
65°	238	198	171	183	189	238
75°	127	113	94	124	130	136
85°	49	47	42	55	59	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1233.6	1233.6	1233.6	1233.6	1233.6
2.5°	1238.0	1234.2	1228.6	1236.1	1235.5
5°	1234.8	1231.1	1225.5	1234.2	1231.7
7.5°	1229.2	1226.1	1220.5	1228.6	1226.1
10°	1219.2	1216.7	1211.7	1218.6	1214.8
12.5°	1208.6	1206.7	1200.5	1206.7	1203.0
15°	1193.6	1191.1	1182.9	1191.1	1186.7
17.5°	1174.8	1171.7	1164.8	1171.7	1167.9
20°	1152.9	1149.2	1142.3	1149.2	1145.4
22.5°	1126.7	1123.6	1117.3	1123.6	1118.5
25°	1097.3	1093.5	1086.7	1091.7	1087.3
27.5°	1063.5	1058.5	1052.3	1056.0	1053.5
30°	1022.9	1016.6	1012.3	1012.3	1007.9
32.5°	978.5	974.1	966.6	962.2	956.6
35°	927.9	921.6	911.0	902.8	890.3
37.5°	873.5	866.0	852.8	832.2	815.3
40°	812.2	802.8	791.6	750.9	720.3
42.5°	746.5	744.7	725.3	655.9	613.4
45°	677.1	679.6	651.5	558.3	519.6
47.5°	607.1	615.9	564.6	473.3	453.3
50°	545.8	549.0	480.8	410.8	399.5
52.5°	482.7	477.7	410.2	361.4	353.3
55°	425.2	405.2	352.0	315.1	314.5
57.5°	374.5	337.6	300.7	273.2	276.4
60°	321.4	280.1	252.6	237.6	242.0
62.5°	274.5	235.1	210.7	206.3	213.8
65°	238.2	197.6	171.3	182.6	188.8
67.5°	203.8	169.4	139.4	166.3	168.8
70°	171.9	146.9	117.5	153.2	153.8
72.5°	145.7	130.0	101.9	138.8	140.7
75°	126.9	113.2	93.8	123.8	130.0
77.5°	111.3	96.9	86.9	106.9	117.5
80°	94.4	78.2	79.4	89.4	100.0
82.5°	72.5	60.6	63.1	73.8	81.3
85°	49.4	46.9	42.5	55.0	58.8
87.5°	26.3	25.0	21.9	31.3	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)