

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: P291008

Luminaire Tested: **14GR-LD5-28-A-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291008
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-L82765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3028.0 lumens
Efficiency: N/A
Efficacy: 132.4 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

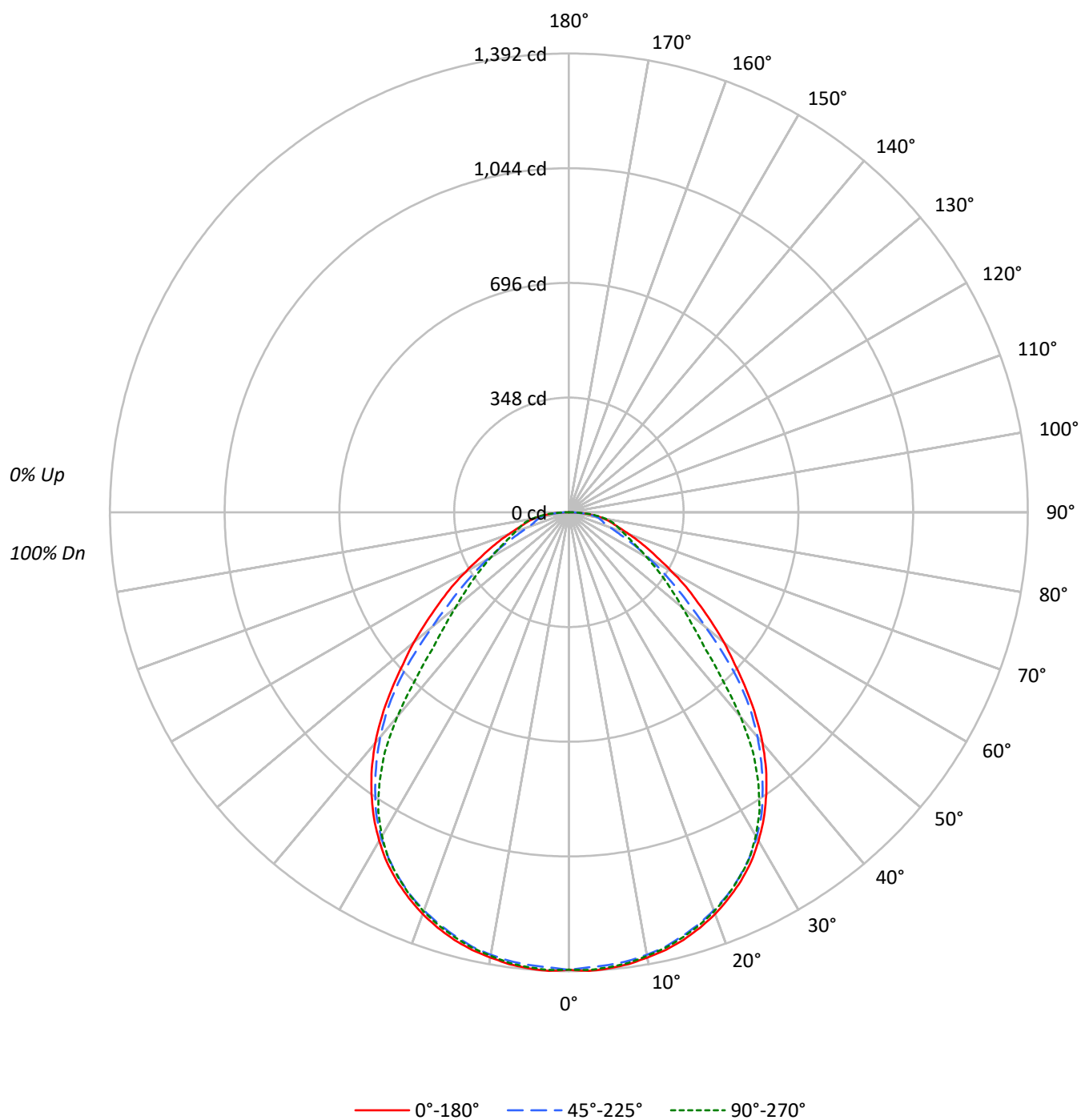
Input Watts (W): 22.878
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	83	99	92	86	82	88	84	80		85	81	78		82
3	93	84	76	71	91	82	75	70	79	74	69		77	72	68		74
4	86	75	67	61	84	74	67	61	72	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	57	48	43	67	56	48	43	54	47	42		53	47	42		52
8	65	52	44	38	63	51	44	38	50	43	38		49	43	38		48
9	61	48	40	35	59	47	40	35	46	39	35		45	39	35		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°	3734	3734	3734
5°	3752	3723	3743
10°	3747	3724	3734
15°	3740	3707	3719
20°	3714	3680	3690
25°	3665	3629	3631
30°	3575	3538	3523
35°	3429	3366	3290
40°	3209	3127	2846
45°	2898	2789	2224
50°	2570	2264	1881
55°	2244	1857	1659
60°	1946	1529	1465
65°	1706	1227	1352
70°	1522	1040	1361
75°	1485	1097	1521
80°	1646	1384	1743
85°	1717	1476	2041



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	4.3
10°-20°	377.1	12.5
20°-30°	564.2	18.6
30°-40°	636.9	21.0
40°-50°	540.3	17.8
50°-60°	365.6	12.1
60°-70°	218.2	7.2
70°-80°	136.6	4.5
80°-90°	57.5	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°	1073.0	35.4
0°-40°	1709.8	56.5
0°-60°	2615.7	86.4
0°-90°	3028.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3028.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1388	1388	1388	1388	1388	
5°	1389	1385	1378	1388	1386	132
15°	1343	1340	1331	1340	1335	379
25°	1234	1230	1222	1228	1223	568
35°	1044	1037	1025	1016	1002	650
45°	762	764	733	628	584	587
55°	478	456	396	354	354	431
65°	268	222	193	205	212	268
75°	143	127	106	139	146	154
85°	56	53	48	62	66	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1387.6	1387.6	1387.6	1387.6	1387.6
2.5°	1392.5	1388.3	1381.9	1390.4	1389.7
5°	1389.0	1384.8	1378.4	1388.3	1385.5
7.5°	1382.6	1379.1	1372.8	1381.9	1379.1
10°	1371.4	1368.6	1362.9	1370.7	1366.5
12.5°	1359.4	1357.3	1350.3	1357.3	1353.1
15°	1342.6	1339.7	1330.6	1339.7	1334.8
17.5°	1321.5	1317.9	1310.2	1317.9	1313.7
20°	1296.8	1292.6	1284.9	1292.6	1288.4
22.5°	1267.3	1263.8	1256.8	1263.8	1258.2
25°	1234.2	1230.0	1222.3	1227.9	1223.0
27.5°	1196.3	1190.6	1183.6	1187.8	1185.0
30°	1150.6	1143.5	1138.6	1138.6	1133.7
32.5°	1100.6	1095.7	1087.3	1082.3	1076.0
35°	1043.7	1036.6	1024.7	1015.5	1001.5
37.5°	982.5	974.0	959.3	936.1	917.1
40°	913.6	903.0	890.3	844.6	810.2
42.5°	839.7	837.6	815.8	737.7	689.9
45°	761.6	764.5	732.8	628.0	584.4
47.5°	682.9	692.7	635.1	532.4	509.9
50°	614.0	617.5	540.8	462.1	449.4
52.5°	542.9	537.3	461.3	406.5	397.4
55°	478.2	455.7	395.9	354.5	353.7
57.5°	421.3	379.8	338.3	307.3	310.8
60°	361.5	315.1	284.1	267.2	272.2
62.5°	308.7	264.4	237.0	232.1	240.5
65°	267.9	222.2	192.7	205.4	212.4
67.5°	229.3	190.6	156.8	187.1	189.9
70°	193.4	165.3	132.2	172.3	173.0
72.5°	163.9	146.3	114.6	156.1	158.2
75°	142.8	127.3	105.5	139.2	146.3
77.5°	125.2	109.0	97.8	120.3	132.2
80°	106.2	87.9	89.3	100.6	112.5
82.5°	81.6	68.2	71.0	83.0	91.4
85°	55.6	52.7	47.8	61.9	66.1
87.5°	29.5	28.1	24.6	35.2	33.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)