

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: P291007

Luminaire Tested: **14GR-LD5-28-A-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291007
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2998.0 lumens
Efficiency: N/A
Efficacy: 131.6 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

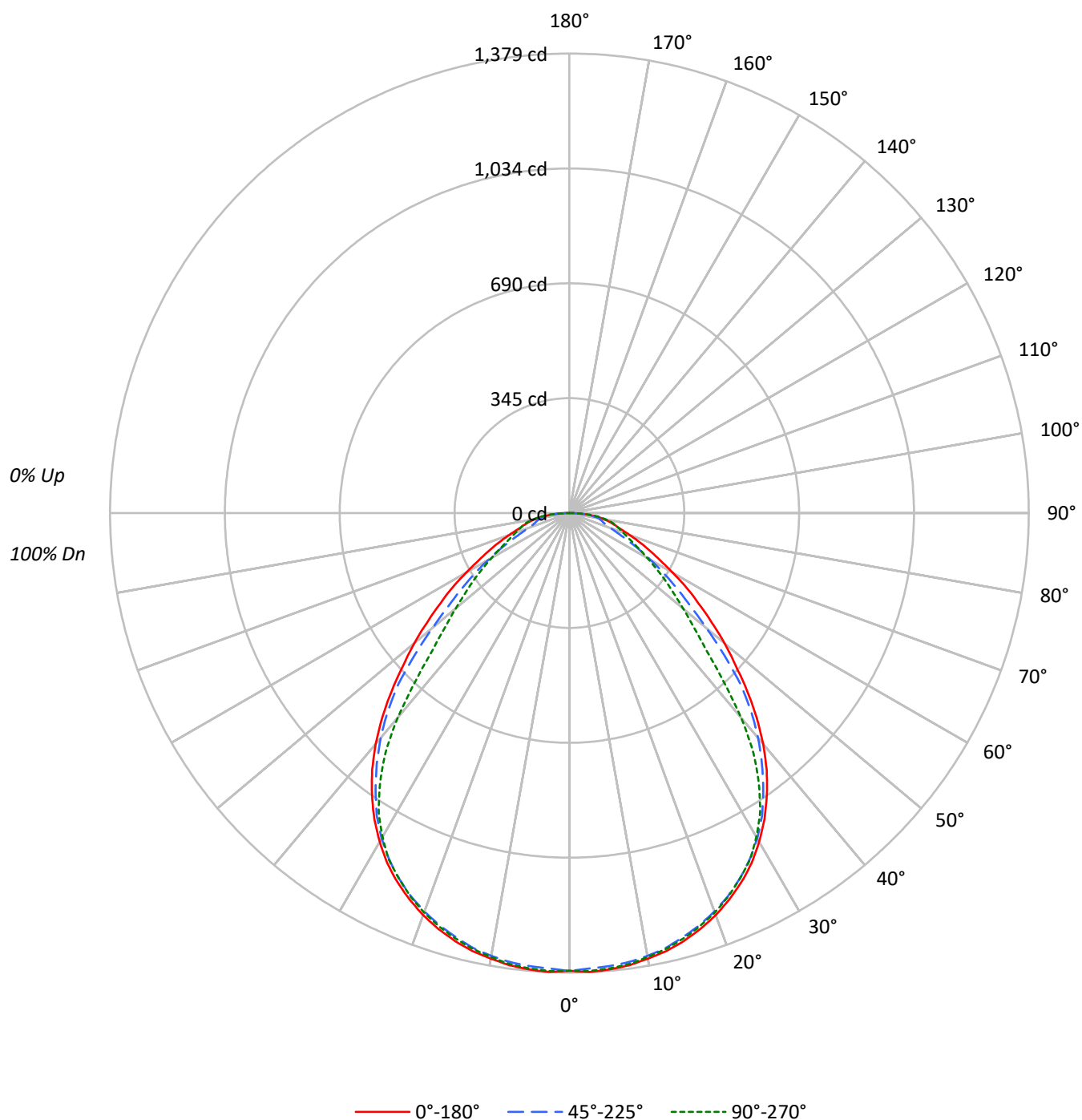
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3697	3697	3697
5°	3715	3687	3705
10°	3710	3687	3697
15°	3703	3670	3682
20°	3677	3643	3653
25°	3628	3593	3595
30°	3540	3503	3488
35°	3394	3333	3257
40°	3177	3097	2818
45°	2870	2761	2202
50°	2545	2242	1863
55°	2221	1839	1643
60°	1926	1514	1450
65°	1689	1215	1339
70°	1507	1030	1348
75°	1470	1085	1506
80°	1629	1370	1726
85°	1698	1460	2022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.4	4.3
10°-20°	373.4	12.5
20°-30°	558.6	18.6
30°-40°	630.5	21.0
40°-50°	534.9	17.8
50°-60°	361.9	12.1
60°-70°	216.0	7.2
70°-80°	135.3	4.5
80°-90°	56.9	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°	1062.3	35.4
0°-40°	1692.9	56.5
0°-60°	2589.8	86.4
0°-90°	2998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2998.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1375	1371	1365	1374	1372	131
15°	1329	1326	1317	1326	1322	375
25°	1222	1218	1210	1216	1211	562
35°	1033	1026	1014	1006	992	644
45°	754	757	726	622	579	581
55°	474	451	392	351	350	427
65°	265	220	191	203	210	265
75°	141	126	104	138	145	152
85°	55	52	47	61	66	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1373.8	1373.8	1373.8	1373.8	1373.8
2.5°	1378.7	1374.5	1368.2	1376.6	1375.9
5°	1375.2	1371.0	1364.8	1374.5	1371.7
7.5°	1368.9	1365.5	1359.2	1368.2	1365.5
10°	1357.8	1355.0	1349.4	1357.1	1352.9
12.5°	1346.0	1343.9	1336.9	1343.9	1339.7
15°	1329.3	1326.5	1317.4	1326.5	1321.6
17.5°	1308.4	1304.9	1297.2	1304.9	1300.7
20°	1284.0	1279.8	1272.2	1279.8	1275.6
22.5°	1254.7	1251.3	1244.3	1251.3	1245.7
25°	1222.0	1217.8	1210.2	1215.8	1210.9
27.5°	1184.4	1178.9	1171.9	1176.1	1173.3
30°	1139.2	1132.2	1127.3	1127.3	1122.4
32.5°	1089.7	1084.8	1076.5	1071.6	1065.4
35°	1033.3	1026.4	1014.5	1005.5	991.5
37.5°	972.7	964.4	949.8	926.8	908.0
40°	904.5	894.1	881.5	836.3	802.1
42.5°	831.4	829.3	807.7	730.4	683.1
45°	754.1	756.9	725.6	621.8	578.6
47.5°	676.1	685.9	628.8	527.1	504.8
50°	607.9	611.4	535.5	457.5	444.9
52.5°	537.6	532.0	456.8	402.5	393.4
55°	473.5	451.2	392.0	350.9	350.2
57.5°	417.1	376.0	334.9	304.3	307.8
60°	357.9	311.9	281.3	264.6	269.5
62.5°	305.7	261.8	234.7	229.8	238.1
65°	265.3	220.0	190.8	203.3	210.3
67.5°	227.0	188.7	155.3	185.2	188.0
70°	191.5	163.6	130.9	170.6	171.3
72.5°	162.2	144.8	113.5	154.6	156.7
75°	141.4	126.0	104.4	137.9	144.8
77.5°	123.9	107.9	96.8	119.1	130.9
80°	105.1	87.0	88.4	99.6	111.4
82.5°	80.8	67.5	70.3	82.2	90.5
85°	55.0	52.2	47.3	61.3	65.5
87.5°	29.2	27.9	24.4	34.8	32.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)