

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: P291123

Luminaire Tested: **14GR-LD5-36-A-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291123
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-LD5-36-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: 3415.0 lumens
Efficiency: N/A
Efficacy: 114.0 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

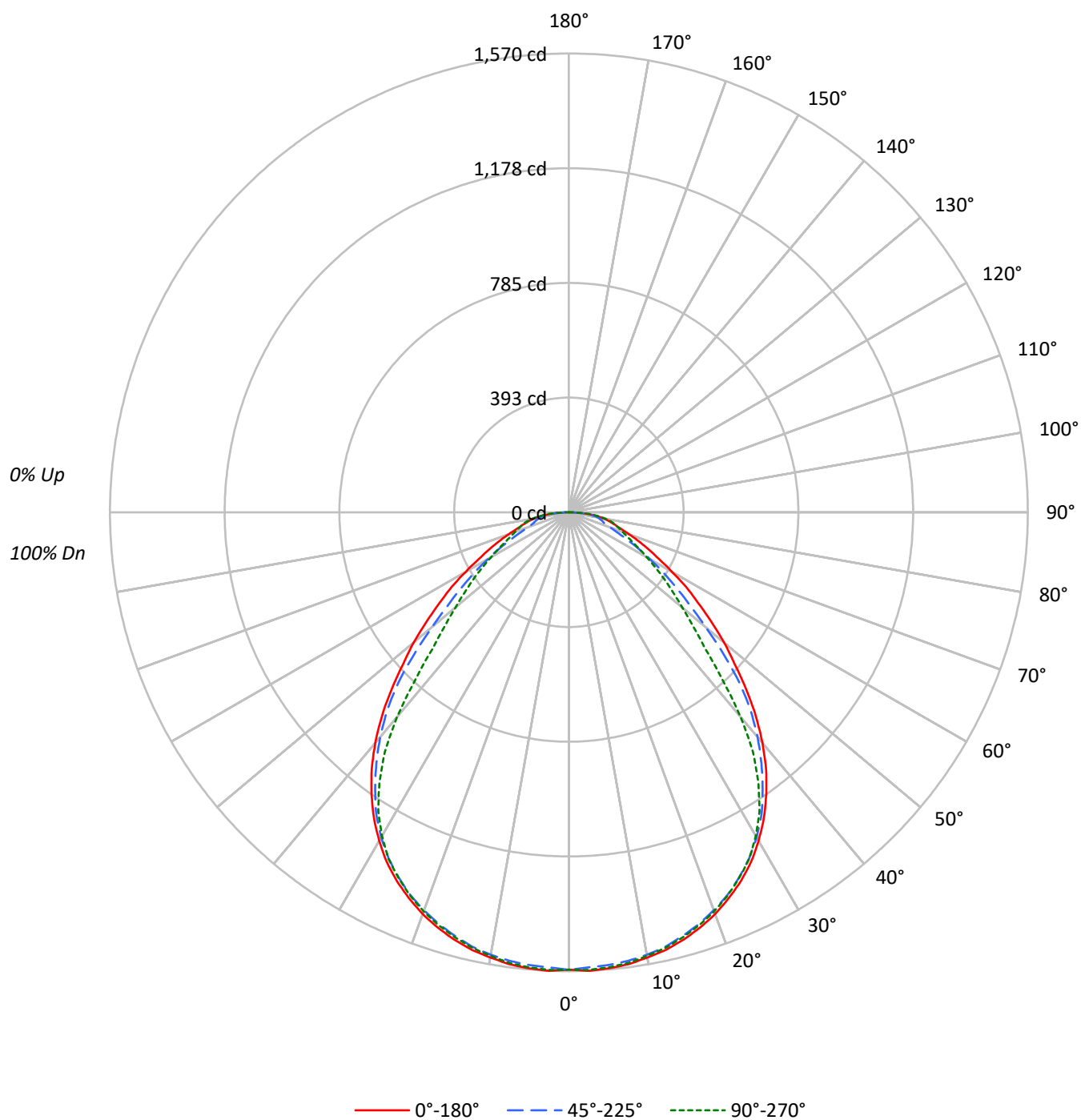
Input Watts (W): 29.946
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4211	4211	4211
5°	4232	4199	4221
10°	4226	4200	4211
15°	4218	4181	4194
20°	4188	4150	4161
25°	4133	4093	4095
30°	4032	3990	3973
35°	3867	3796	3710
40°	3619	3527	3210
45°	3269	3145	2508
50°	2899	2553	2122
55°	2530	2095	1872
60°	2194	1724	1652
65°	1924	1384	1525
70°	1716	1173	1535
75°	1674	1237	1716
80°	1857	1561	1967
85°	1936	1664	2303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	4.3
10°-20°	425.3	12.5
20°-30°	636.3	18.6
30°-40°	718.2	21.0
40°-50°	609.3	17.8
50°-60°	412.3	12.1
60°-70°	246.1	7.2
70°-80°	154.1	4.5
80°-90°	64.8	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°	1210.1	35.4
0°-40°	1928.3	56.5
0°-60°	2950.0	86.4
0°-90°	3415.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3415.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1565	1565	1565	1565	1565	
5°	1566	1562	1555	1566	1562	149
15°	1514	1511	1501	1511	1505	427
25°	1392	1387	1378	1385	1379	640
35°	1177	1169	1156	1145	1130	733
45°	859	862	826	708	659	662
55°	539	514	446	400	399	486
65°	302	251	217	232	240	302
75°	161	144	119	157	165	173
85°	63	60	54	70	75	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1564.9	1564.9	1564.9	1564.9	1564.9
2.5°	1570.5	1565.7	1558.6	1568.1	1567.3
5°	1566.5	1561.7	1554.6	1565.7	1562.5
7.5°	1559.4	1555.4	1548.2	1558.6	1555.4
10°	1546.7	1543.5	1537.1	1545.9	1541.1
12.5°	1533.2	1530.8	1522.9	1530.8	1526.0
15°	1514.1	1511.0	1500.7	1511.0	1505.4
17.5°	1490.3	1486.4	1477.7	1486.4	1481.6
20°	1462.6	1457.8	1449.1	1457.8	1453.1
22.5°	1429.3	1425.3	1417.4	1425.3	1419.0
25°	1392.0	1387.2	1378.5	1384.9	1379.3
27.5°	1349.2	1342.8	1334.9	1339.6	1336.5
30°	1297.6	1289.7	1284.1	1284.1	1278.6
32.5°	1241.3	1235.7	1226.2	1220.7	1213.5
35°	1177.0	1169.1	1155.6	1145.3	1129.5
37.5°	1108.0	1098.5	1081.9	1055.7	1034.3
40°	1030.3	1018.4	1004.1	952.6	913.7
42.5°	947.0	944.7	920.1	832.0	778.1
45°	859.0	862.2	826.5	708.3	659.1
47.5°	770.2	781.3	716.2	600.4	575.0
50°	692.4	696.4	609.9	521.1	506.8
52.5°	612.3	606.0	520.3	458.4	448.1
55°	539.3	514.0	446.5	399.8	399.0
57.5°	475.1	428.3	381.5	346.6	350.6
60°	407.7	355.3	320.4	301.4	307.0
62.5°	348.2	298.2	267.3	261.7	271.3
65°	302.2	250.6	217.3	231.6	239.5
67.5°	258.6	214.9	176.9	211.0	214.2
70°	218.1	186.4	149.1	194.3	195.1
72.5°	184.8	165.0	129.3	176.1	178.5
75°	161.0	143.6	119.0	157.0	165.0
77.5°	141.2	122.9	110.2	135.6	149.1
80°	119.8	99.1	100.7	113.4	126.9
82.5°	92.0	76.9	80.1	93.6	103.1
85°	62.7	59.5	53.9	69.8	74.6
87.5°	33.3	31.7	27.8	39.7	37.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)