

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: P291216

Luminaire Tested: **14GR-LD5-36-A125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291216
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-LD5-36-A125-UNV-L82765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3393.0 lumens
Efficiency: N/A
Efficacy: 115.8 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

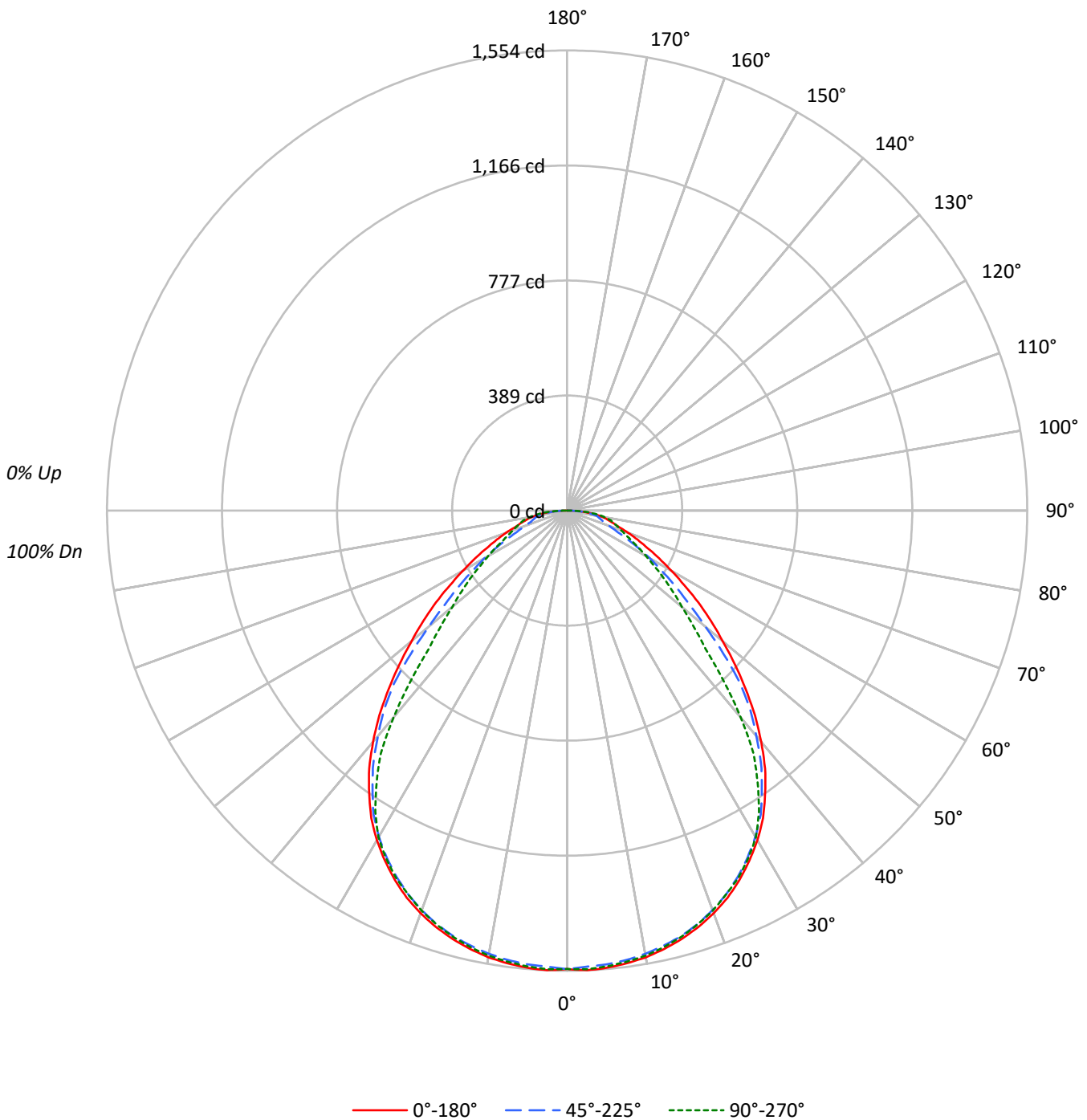
Input Watts (W): 29.295
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4166	4166	4166
5°	4187	4155	4174
10°	4186	4153	4171
15°	4171	4145	4151
20°	4143	4112	4116
25°	4088	4050	4062
30°	3994	3950	3960
35°	3830	3765	3685
40°	3581	3492	3205
45°	3241	3148	2513
50°	2867	2547	2119
55°	2537	2094	1869
60°	2190	1732	1657
65°	1904	1379	1524
70°	1721	1183	1523
75°	1653	1236	1702
80°	1843	1573	1988
85°	1945	1677	2381



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	4.3
10°-20°	420.9	12.4
20°-30°	629.9	18.6
30°-40°	713.0	21.0
40°-50°	607.4	17.9
50°-60°	411.2	12.1
60°-70°	245.5	7.2
70°-80°	153.4	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°	1197.7	35.3
0°-40°	1910.7	56.3
0°-60°	2929.3	86.3
0°-90°	3393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3393.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1548	1548	1548	1548	1548	
5°	1550	1546	1538	1548	1545	147
15°	1497	1492	1488	1497	1490	422
25°	1377	1373	1364	1370	1368	633
35°	1166	1159	1146	1134	1122	727
45°	852	854	827	705	660	657
55°	541	511	446	398	398	484
65°	299	250	216	231	239	301
75°	159	142	119	156	164	172
85°	63	58	54	68	77	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1548.3	1548.3	1548.3	1548.3	1548.3
2.5°	1553.8	1549.9	1541.2	1551.5	1549.9
5°	1549.9	1546.0	1538.1	1547.5	1545.2
7.5°	1542.0	1538.1	1531.0	1540.5	1536.5
10°	1531.8	1527.1	1520.0	1530.2	1526.3
12.5°	1516.1	1511.3	1505.0	1515.3	1509.8
15°	1497.2	1491.7	1487.7	1497.2	1490.1
17.5°	1474.3	1469.6	1464.1	1473.6	1465.7
20°	1446.8	1442.9	1435.8	1441.3	1437.3
22.5°	1415.3	1409.8	1402.7	1409.0	1403.5
25°	1376.7	1372.8	1364.1	1370.4	1368.1
27.5°	1332.7	1330.3	1320.1	1327.9	1324.0
30°	1285.4	1279.1	1271.3	1273.6	1274.4
32.5°	1231.1	1223.2	1216.9	1211.4	1205.9
35°	1165.8	1158.7	1146.1	1134.3	1121.7
37.5°	1098.1	1088.6	1076.0	1050.1	1034.3
40°	1019.4	1014.6	994.2	958.0	912.3
42.5°	939.1	934.4	916.2	835.2	785.6
45°	851.7	854.1	827.3	705.3	660.4
47.5°	768.3	774.6	716.3	602.2	578.6
50°	684.8	691.9	608.5	520.3	506.1
52.5°	611.6	606.1	518.7	456.5	450.3
55°	540.8	510.9	446.3	398.3	398.3
57.5°	468.4	425.9	379.4	348.7	348.7
60°	407.0	354.2	321.9	301.5	307.8
62.5°	350.3	294.4	266.8	262.9	270.8
65°	299.1	249.5	216.5	231.4	239.3
67.5°	257.4	213.3	177.9	209.4	214.1
70°	218.8	185.8	150.3	192.9	193.6
72.5°	183.4	163.7	129.1	174.7	177.9
75°	159.0	142.5	118.9	155.9	163.7
77.5°	139.3	122.0	109.4	134.6	149.6
80°	118.9	100.0	101.5	113.4	128.3
82.5°	91.3	77.1	80.3	92.9	104.7
85°	63.0	58.2	54.3	68.5	77.1
87.5°	33.8	31.5	27.6	38.6	39.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)