

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: P291265

Luminaire Tested: **14GR-LD5-36-A125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291265
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-L93050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3394.0 lumens
Efficiency: N/A
Efficacy: 113.0 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

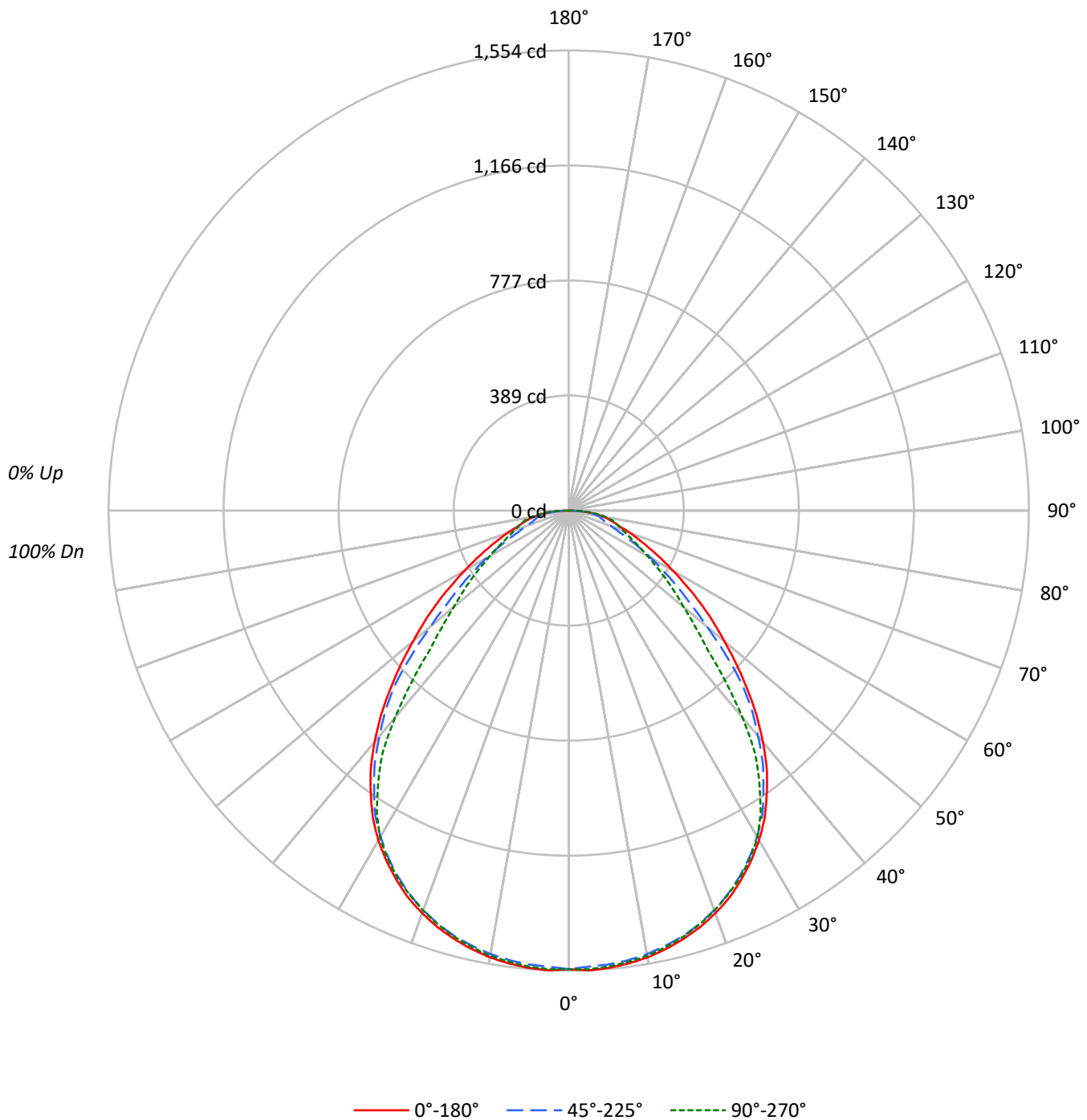
Input Watts (W): 30.039
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291265

CATALOG NUMBER: 14GR-LD5-36-A125-UNV-L93050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P291265

CATALOG NUMBER: 14GR-LD5-36-A125-UNV-L93050-W2A1-U-4000K

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	82	99	92	86	82	88	84	80		85	81	78		82
3	93	84	76	70	91	82	75	70	79	73	69		77	72	67		74
4	86	75	67	61	84	74	66	61	71	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	56	48	43	67	56	48	42	54	47	42		53	47	42		52
8	65	52	44	38	63	51	44	38	50	43	38		49	42	38		48
9	60	48	40	35	59	47	40	35	46	39	35		45	39	34		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°	4168	4168	4168
5°	4188	4156	4175
10°	4187	4154	4172
15°	4172	4146	4152
20°	4144	4113	4117
25°	4089	4051	4063
30°	3995	3951	3961
35°	3831	3766	3686
40°	3582	3494	3206
45°	3242	3149	2514
50°	2868	2548	2120
55°	2538	2094	1869
60°	2191	1733	1657
65°	1905	1379	1524
70°	1722	1183	1524
75°	1654	1236	1703
80°	1843	1574	1988
85°	1945	1677	2384



TEST NUMBER: P291265

CATALOG NUMBER: 14GR-LD5-36-A125-UNV-L93050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	4.3
10°-20°	421.0	12.4
20°-30°	630.1	18.6
30°-40°	713.2	21.0
40°-50°	607.5	17.9
50°-60°	411.3	12.1
60°-70°	245.6	7.2
70°-80°	153.4	4.5
80°-90°	64.9	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°	1198.0	35.3
0°-40°	1911.2	56.3
0°-60°	2930.1	86.3
0°-90°	3394.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3394.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1549	1549	1549	1549	1549	
5°	1550	1546	1539	1548	1546	147
15°	1498	1492	1488	1498	1490	422
25°	1377	1373	1364	1371	1368	633
35°	1166	1159	1146	1135	1122	727
45°	852	854	828	706	661	657
55°	541	511	446	398	398	484
65°	299	250	216	232	239	302
75°	159	142	119	156	164	172
85°	63	58	54	68	77	67
90°	0	0	0	0	0	



TEST NUMBER: P291265

CATALOG NUMBER: 14GR-LD5-36-A125-UNV-L93050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1548.8	1548.8	1548.8	1548.8	1548.8
2.5°	1554.3	1550.4	1541.7	1551.9	1550.4
5°	1550.4	1546.4	1538.6	1548.0	1545.6
7.5°	1542.5	1538.6	1531.5	1540.9	1537.0
10°	1532.3	1527.5	1520.4	1530.7	1526.7
12.5°	1516.5	1511.8	1505.5	1515.7	1510.2
15°	1497.6	1492.1	1488.2	1497.6	1490.5
17.5°	1474.8	1470.1	1464.5	1474.0	1466.1
20°	1447.2	1443.3	1436.2	1441.7	1437.8
22.5°	1415.7	1410.2	1403.1	1409.4	1403.9
25°	1377.1	1373.2	1364.5	1370.8	1368.5
27.5°	1333.0	1330.7	1320.4	1328.3	1324.4
30°	1285.8	1279.5	1271.6	1274.0	1274.8
32.5°	1231.5	1223.6	1217.3	1211.8	1206.3
35°	1166.1	1159.0	1146.4	1134.6	1122.0
37.5°	1098.4	1089.0	1076.4	1050.4	1034.6
40°	1019.7	1014.9	994.5	958.2	912.6
42.5°	939.4	934.6	916.5	835.4	785.8
45°	852.0	854.3	827.5	705.5	660.6
47.5°	768.5	774.8	716.5	602.4	578.7
50°	685.0	692.1	608.6	520.5	506.3
52.5°	611.8	606.3	518.9	456.7	450.4
55°	540.9	511.0	446.4	398.4	398.4
57.5°	468.5	426.0	379.5	348.8	348.8
60°	407.1	354.3	322.0	301.6	307.9
62.5°	350.4	294.5	266.9	263.0	270.9
65°	299.2	249.6	216.5	231.5	239.4
67.5°	257.5	213.4	177.9	209.4	214.2
70°	218.9	185.8	150.4	192.9	193.7
72.5°	183.5	163.8	129.1	174.8	177.9
75°	159.1	142.5	118.9	155.9	163.8
77.5°	139.4	122.0	109.4	134.6	149.6
80°	118.9	100.0	101.6	113.4	128.3
82.5°	91.3	77.2	80.3	92.9	104.7
85°	63.0	58.3	54.3	68.5	77.2
87.5°	33.9	31.5	27.6	38.6	39.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)