

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: P291168

Luminaire Tested: **14GR-LD5-36-A125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291168
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-L83050-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3919.0 lumens
Efficiency: N/A
Efficacy: 127.7 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

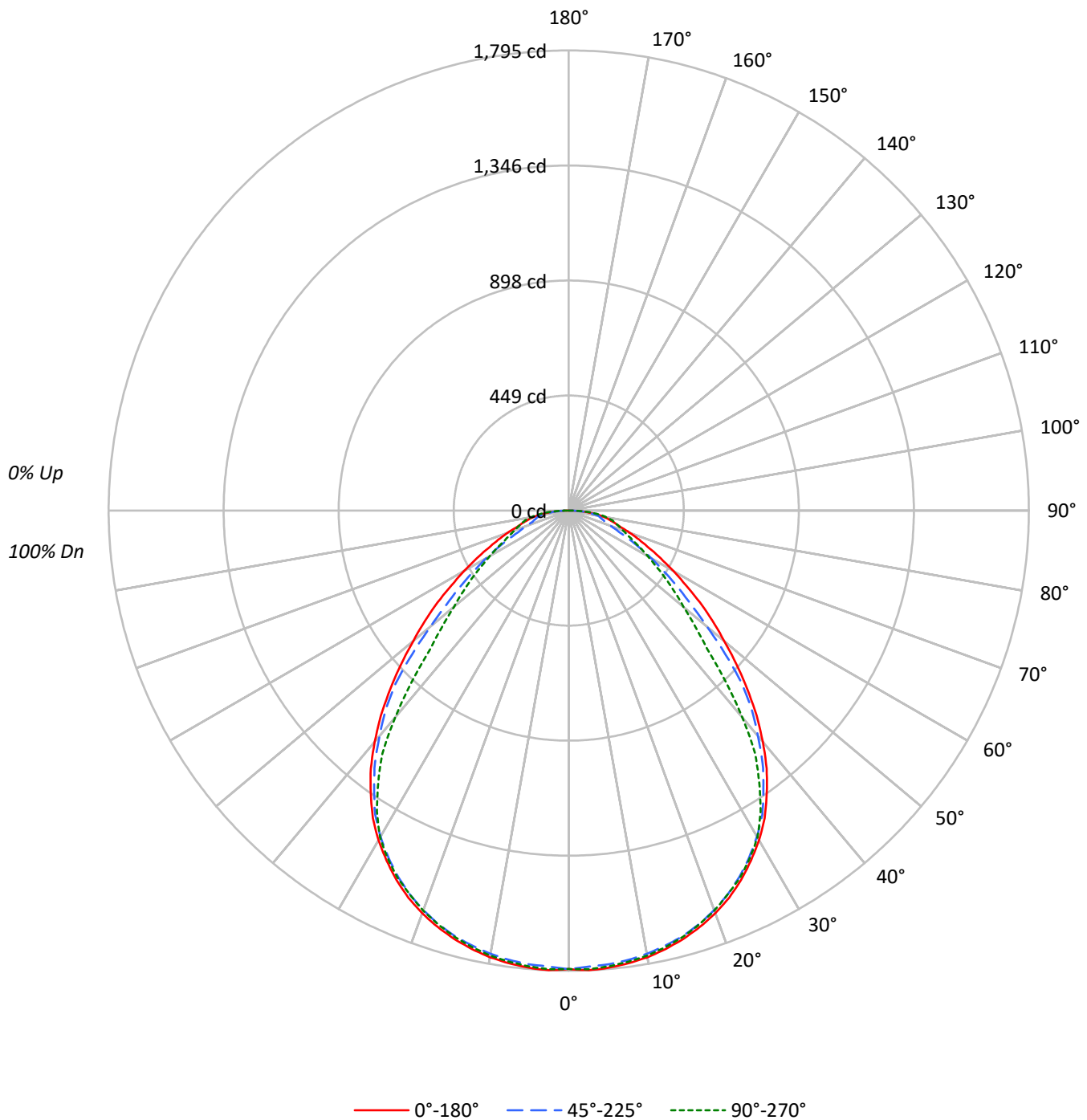
Input Watts (W): 30.69
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4813	4813	4813
5°	4836	4799	4821
10°	4835	4797	4817
15°	4818	4787	4795
20°	4785	4749	4754
25°	4722	4678	4692
30°	4613	4562	4574
35°	4423	4349	4256
40°	4136	4034	3701
45°	3744	3637	2903
50°	3311	2942	2447
55°	2930	2419	2158
60°	2530	2002	1913
65°	2200	1592	1760
70°	1989	1367	1760
75°	1910	1428	1966
80°	2128	1818	2297
85°	2245	1936	2751



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.6	4.3
10°-20°	486.1	12.4
20°-30°	727.5	18.6
30°-40°	823.6	21.0
40°-50°	701.5	17.9
50°-60°	475.0	12.1
60°-70°	283.6	7.2
70°-80°	177.2	4.5
80°-90°	74.9	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°	1383.3	35.3
0°-40°	2206.9	56.3
0°-60°	3383.4	86.3
0°-90°	3919.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3919.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1788	1788	1788	1788	1788	
5°	1790	1786	1776	1788	1785	170
15°	1729	1723	1718	1729	1721	488
25°	1590	1586	1576	1583	1580	731
35°	1346	1338	1324	1310	1296	839
45°	984	986	956	815	763	759
55°	625	590	516	460	460	559
65°	346	288	250	267	276	348
75°	184	165	137	180	189	198
85°	73	67	63	79	89	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1788.4	1788.4	1788.4	1788.4	1788.4
2.5°	1794.7	1790.2	1780.2	1792.0	1790.2
5°	1790.2	1785.6	1776.5	1787.5	1784.7
7.5°	1781.1	1776.5	1768.4	1779.3	1774.7
10°	1769.3	1763.8	1755.6	1767.5	1762.9
12.5°	1751.1	1745.6	1738.4	1750.2	1743.8
15°	1729.3	1722.9	1718.4	1729.3	1721.1
17.5°	1702.9	1697.4	1691.1	1702.0	1692.9
20°	1671.1	1666.5	1658.3	1664.7	1660.2
22.5°	1634.7	1628.3	1620.2	1627.4	1621.1
25°	1590.2	1585.6	1575.6	1582.9	1580.2
27.5°	1539.2	1536.5	1524.7	1533.8	1529.2
30°	1484.7	1477.4	1468.3	1471.1	1472.0
32.5°	1422.0	1412.9	1405.6	1399.2	1392.9
35°	1346.5	1338.3	1323.8	1310.1	1295.6
37.5°	1268.3	1257.4	1242.9	1212.9	1194.7
40°	1177.4	1171.9	1148.3	1106.5	1053.7
42.5°	1084.7	1079.2	1058.3	964.6	907.4
45°	983.7	986.5	955.6	814.6	762.8
47.5°	887.4	894.6	827.4	695.5	668.2
50°	791.0	799.2	702.8	601.0	584.6
52.5°	706.4	700.1	599.2	527.3	520.1
55°	624.6	590.1	515.5	460.0	460.0
57.5°	541.0	491.9	438.2	402.8	402.8
60°	470.0	409.1	371.9	348.2	355.5
62.5°	404.6	340.0	308.2	303.7	312.8
65°	345.5	288.2	250.0	267.3	276.4
67.5°	297.3	246.4	205.5	241.8	247.3
70°	252.8	214.6	173.7	222.7	223.7
72.5°	211.8	189.1	149.1	201.8	205.5
75°	183.7	164.6	137.3	180.0	189.1
77.5°	160.9	140.9	126.4	155.5	172.7
80°	137.3	115.5	117.3	130.9	148.2
82.5°	105.5	89.1	92.7	107.3	120.9
85°	72.7	67.3	62.7	79.1	89.1
87.5°	39.1	36.4	31.8	44.5	45.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)