

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: P291322

Luminaire Tested: **14GR-LD5-36-A125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291322
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-L92765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3510.0 lumens
Efficiency: N/A
Efficacy: 114.4 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

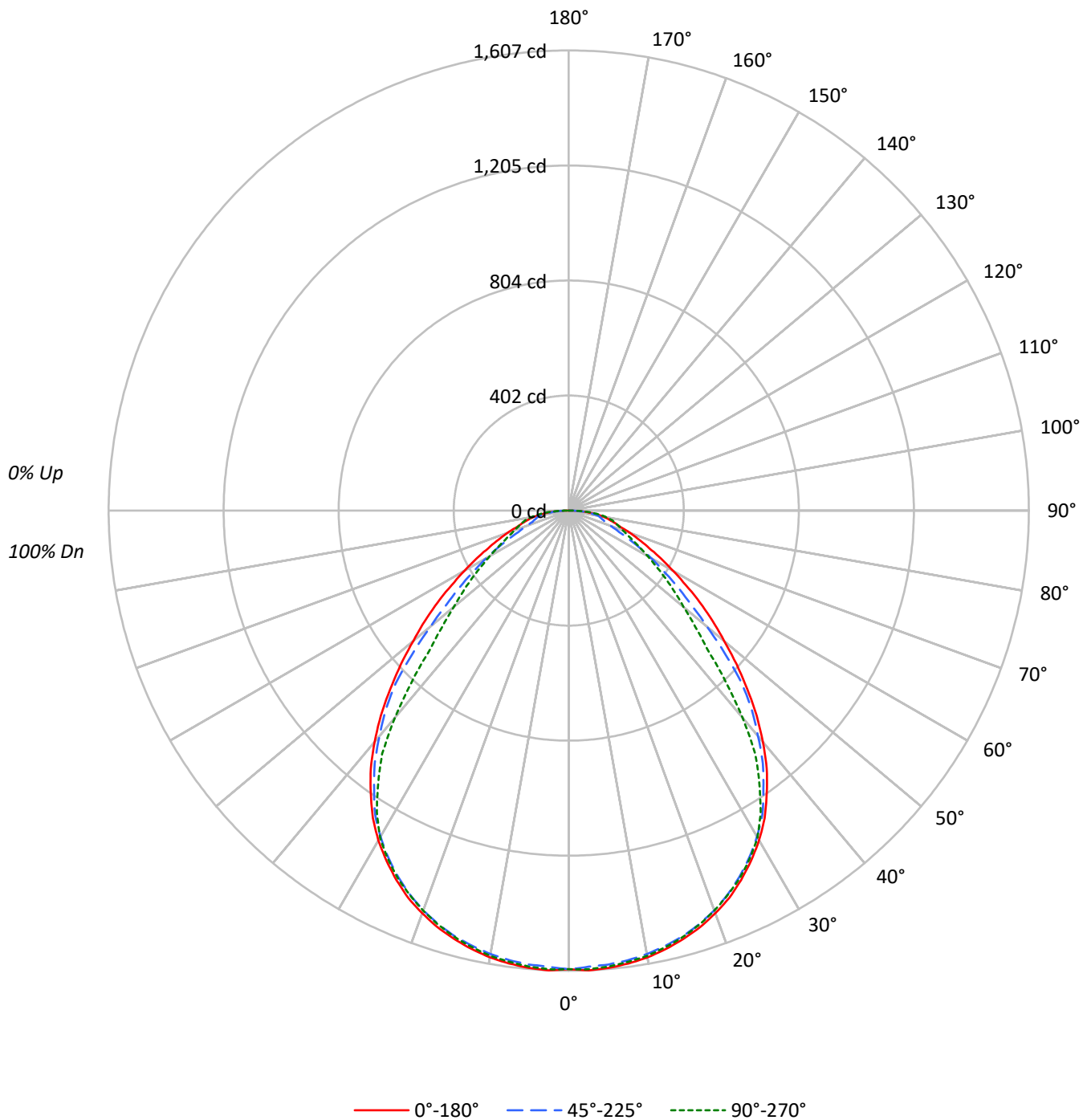
Input Watts (W): 30.69
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	4310	4310	4310
5°	4331	4298	4318
10°	4330	4297	4314
15°	4315	4288	4294
20°	4286	4253	4258
25°	4229	4190	4202
30°	4132	4086	4096
35°	3962	3895	3812
40°	3704	3613	3315
45°	3353	3257	2600
50°	2966	2635	2192
55°	2624	2166	1933
60°	2266	1792	1714
65°	1970	1426	1576
70°	1781	1223	1576
75°	1710	1279	1761
80°	1906	1627	2056
85°	2010	1735	2464



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.9	4.3
10°-20°	435.4	12.4
20°-30°	651.6	18.6
30°-40°	737.6	21.0
40°-50°	628.3	17.9
50°-60°	425.4	12.1
60°-70°	254.0	7.2
70°-80°	158.7	4.5
80°-90°	67.1	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°	1238.9	35.3
0°-40°	1976.6	56.3
0°-60°	3030.3	86.3
0°-90°	3510.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3510.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1602	1602	1602	1602	1602	
5°	1603	1599	1591	1601	1598	152
15°	1549	1543	1539	1549	1542	437
25°	1424	1420	1411	1418	1415	655
35°	1206	1199	1186	1173	1160	752
45°	881	884	856	730	683	680
55°	559	528	462	412	412	500
65°	309	258	224	239	248	312
75°	164	147	123	161	169	178
85°	65	60	56	71	80	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1601.7	1601.7	1601.7	1601.7	1601.7
2.5°	1607.4	1603.4	1594.4	1605.0	1603.4
5°	1603.4	1599.3	1591.1	1600.9	1598.5
7.5°	1595.2	1591.1	1583.8	1593.6	1589.5
10°	1584.6	1579.7	1572.4	1583.0	1578.9
12.5°	1568.3	1563.5	1556.9	1567.5	1561.8
15°	1548.8	1543.1	1539.0	1548.8	1541.5
17.5°	1525.2	1520.3	1514.6	1524.4	1516.2
20°	1496.7	1492.6	1485.3	1491.0	1486.9
22.5°	1464.1	1458.4	1451.1	1457.6	1451.9
25°	1424.2	1420.1	1411.2	1417.7	1415.2
27.5°	1378.6	1376.2	1365.6	1373.7	1369.6
30°	1329.7	1323.2	1315.1	1317.5	1318.3
32.5°	1273.6	1265.4	1258.9	1253.2	1247.5
35°	1206.0	1198.6	1185.6	1173.4	1160.4
37.5°	1135.9	1126.2	1113.1	1086.3	1070.0
40°	1054.5	1049.6	1028.5	991.0	943.8
42.5°	971.5	966.6	947.8	864.0	812.7
45°	881.1	883.5	855.8	729.6	683.2
47.5°	794.8	801.3	741.0	622.9	598.5
50°	708.4	715.8	629.5	538.3	523.6
52.5°	632.7	627.0	536.6	472.3	465.8
55°	559.4	528.5	461.7	412.0	412.0
57.5°	484.5	440.5	392.5	360.7	360.7
60°	421.0	366.4	333.0	311.9	318.4
62.5°	362.4	304.5	276.0	272.0	280.1
65°	309.4	258.1	223.9	239.4	247.5
67.5°	266.3	220.7	184.0	216.6	221.5
70°	226.4	192.2	155.5	199.5	200.3
72.5°	189.7	169.4	133.5	180.8	184.0
75°	164.5	147.4	123.0	161.2	169.4
77.5°	144.1	126.2	113.2	139.2	154.7
80°	123.0	103.4	105.0	117.3	132.7
82.5°	94.5	79.8	83.1	96.1	108.3
85°	65.1	60.3	56.2	70.8	79.8
87.5°	35.0	32.6	28.5	39.9	40.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)