

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: P291207

Luminaire Tested: **14GR-LD5-32-A125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291207
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-LD5-32-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: 3036.0 lumens
Efficiency: N/A
Efficacy: 118.3 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

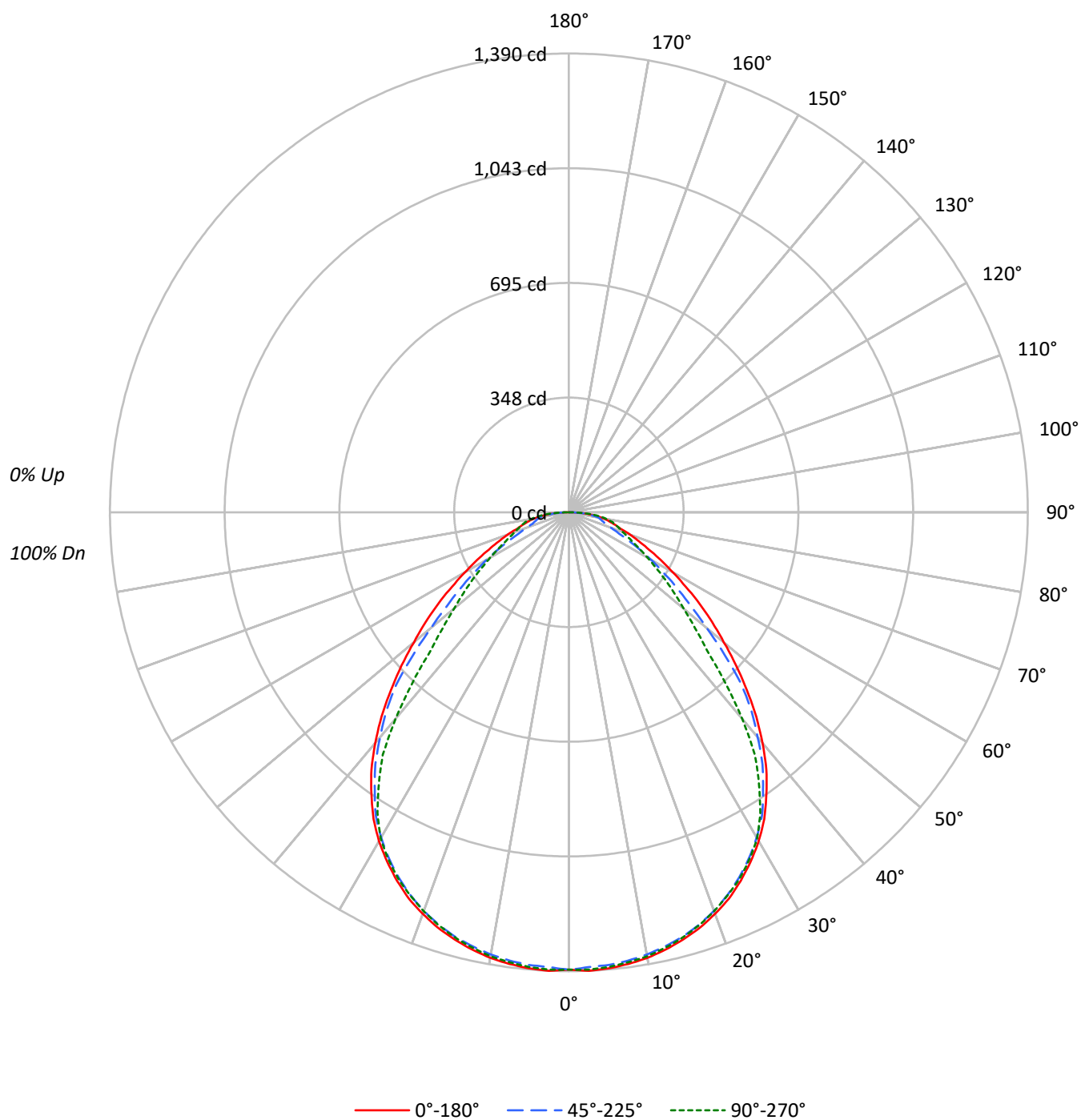
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	82	99	92	86	82	88	84	80	85	81	78	82	79	76
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66
4	86	75	67	61	84	74	66	61	71	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	56	48	43	67	56	48	42	54	47	42	53	47	42	51	46	42
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3728	3728	3728
5°	3746	3718	3735
10°	3745	3716	3732
15°	3732	3709	3714
20°	3707	3679	3683
25°	3658	3624	3635
30°	3574	3535	3543
35°	3427	3369	3297
40°	3204	3125	2868
45°	2900	2817	2249
50°	2565	2279	1896
55°	2270	1874	1672
60°	1960	1551	1482
65°	1704	1233	1363
70°	1541	1058	1364
75°	1480	1106	1523
80°	1649	1409	1779
85°	1738	1501	2130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.4	4.3
10°-20°	376.6	12.4
20°-30°	563.6	18.6
30°-40°	638.0	21.0
40°-50°	543.4	17.9
50°-60°	368.0	12.1
60°-70°	219.7	7.2
70°-80°	137.3	4.5
80°-90°	58.0	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°	1071.6	35.3
0°-40°	1709.6	56.3
0°-60°	2621.0	86.3
0°-90°	3036.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3036.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1385	1385	1385	1385	1385	
5°	1387	1383	1376	1385	1383	132
15°	1340	1335	1331	1340	1333	378
25°	1232	1228	1221	1226	1224	567
35°	1043	1037	1026	1015	1004	650
45°	762	764	740	631	591	588
55°	484	457	399	356	356	433
65°	268	223	194	207	214	270
75°	142	128	106	140	146	154
85°	56	52	49	61	69	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1385.4	1385.4	1385.4	1385.4	1385.4
2.5°	1390.4	1386.8	1379.1	1388.2	1386.8
5°	1386.8	1383.3	1376.3	1384.7	1382.6
7.5°	1379.8	1376.3	1369.9	1378.4	1374.9
10°	1370.6	1366.4	1360.1	1369.2	1365.7
12.5°	1356.5	1352.3	1346.7	1355.8	1350.9
15°	1339.6	1334.7	1331.2	1339.6	1333.3
17.5°	1319.2	1315.0	1310.1	1318.5	1311.5
20°	1294.6	1291.0	1284.7	1289.6	1286.1
22.5°	1266.4	1261.5	1255.1	1260.8	1255.8
25°	1231.9	1228.4	1220.6	1226.2	1224.1
27.5°	1192.4	1190.3	1181.2	1188.2	1184.7
30°	1150.2	1144.5	1137.5	1139.6	1140.3
32.5°	1101.6	1094.5	1088.9	1084.0	1079.0
35°	1043.1	1036.8	1025.5	1014.9	1003.7
37.5°	982.5	974.1	962.8	939.6	925.5
40°	912.1	907.9	889.6	857.2	816.3
42.5°	840.3	836.0	819.8	747.3	702.9
45°	762.1	764.2	740.3	631.1	590.9
47.5°	687.4	693.1	640.9	538.8	517.7
50°	612.8	619.1	544.4	465.6	452.9
52.5°	547.3	542.3	464.2	408.5	402.9
55°	483.9	457.1	399.4	356.4	356.4
57.5°	419.1	381.0	339.5	312.0	312.0
60°	364.1	316.9	288.1	269.8	275.4
62.5°	313.4	263.4	238.8	235.2	242.3
65°	267.6	223.3	193.7	207.1	214.1
67.5°	230.3	190.9	159.2	187.4	191.6
70°	195.8	166.2	134.5	172.6	173.3
72.5°	164.1	146.5	115.5	156.4	159.2
75°	142.3	127.5	106.4	139.5	146.5
77.5°	124.7	109.2	97.9	120.4	133.8
80°	106.4	89.5	90.9	101.4	114.8
82.5°	81.7	69.0	71.8	83.1	93.7
85°	56.3	52.1	48.6	61.3	69.0
87.5°	30.3	28.2	24.7	34.5	35.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)