

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: P291315

Luminaire Tested: **14GR-LD5-36-A125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291315
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-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3013.0 lumens
Efficiency: N/A
Efficacy: 103.8 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

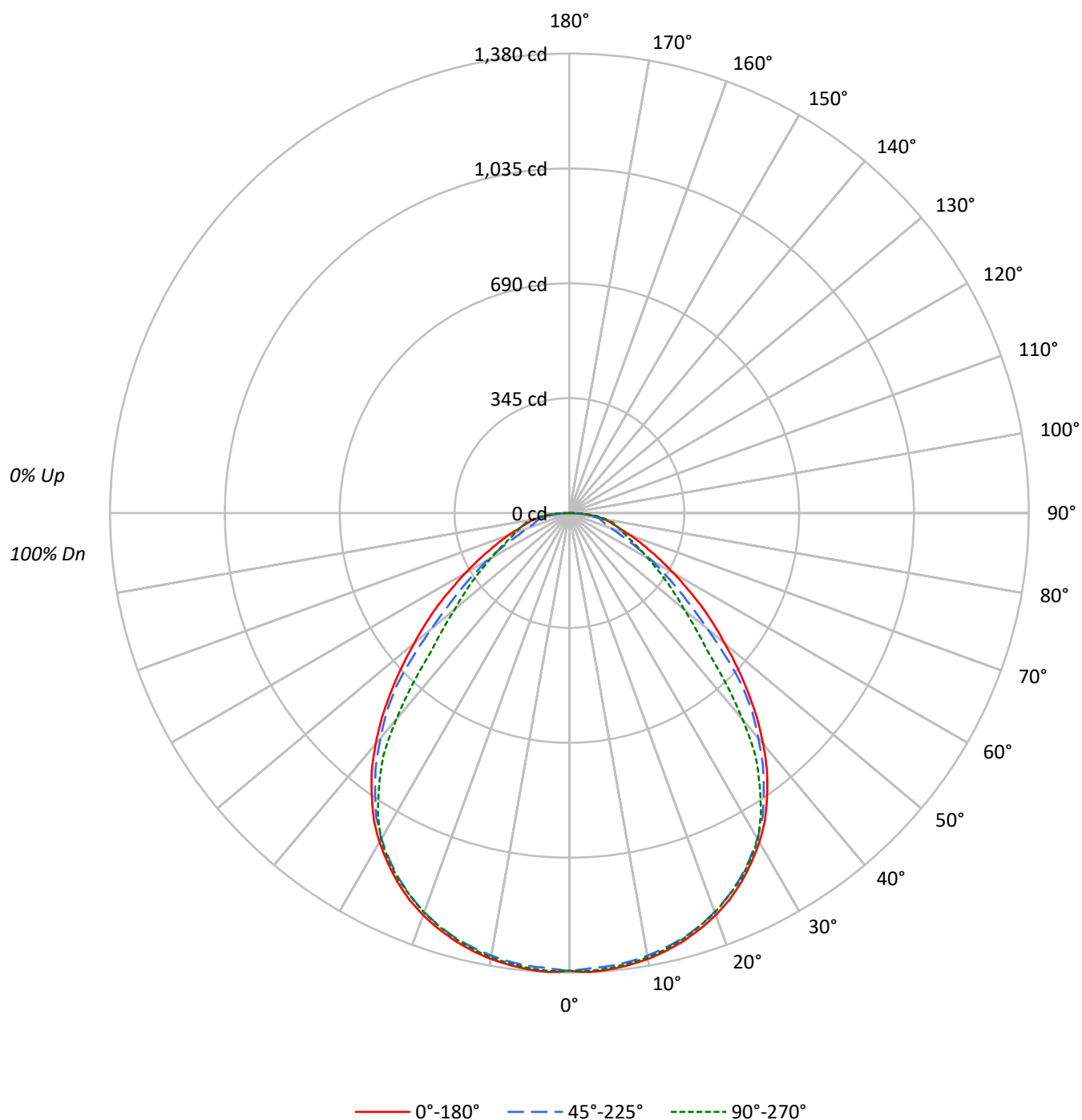
Input Watts (W): 29.016
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3700	3700	3700
5°	3718	3689	3706
10°	3717	3688	3704
15°	3704	3680	3686
20°	3679	3651	3655
25°	3630	3597	3607
30°	3547	3508	3517
35°	3401	3343	3272
40°	3180	3101	2846
45°	2878	2796	2232
50°	2546	2262	1882
55°	2253	1859	1659
60°	1945	1539	1471
65°	1691	1224	1353
70°	1529	1050	1353
75°	1468	1097	1512
80°	1635	1398	1765
85°	1726	1488	2115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.4	4.3
10°-20°	373.8	12.4
20°-30°	559.4	18.6
30°-40°	633.2	21.0
40°-50°	539.3	17.9
50°-60°	365.2	12.1
60°-70°	218.0	7.2
70°-80°	136.2	4.5
80°-90°	57.6	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°	1063.5	35.3
0°-40°	1696.7	56.3
0°-60°	2601.2	86.3
0°-90°	3013.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3013.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1375	1375	1375	1375	1375	
5°	1376	1373	1366	1374	1372	131
15°	1330	1325	1321	1330	1323	375
25°	1222	1219	1211	1217	1215	562
35°	1035	1029	1018	1007	996	645
45°	756	758	735	626	586	583
55°	480	454	396	354	354	429
65°	266	222	192	206	212	268
75°	141	126	106	138	145	152
85°	56	52	48	61	68	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1374.9	1374.9	1374.9	1374.9	1374.9
2.5°	1379.8	1376.3	1368.6	1377.7	1376.3
5°	1376.3	1372.8	1365.8	1374.2	1372.1
7.5°	1369.3	1365.8	1359.5	1367.9	1364.4
10°	1360.2	1356.1	1349.8	1358.8	1355.4
12.5°	1346.3	1342.1	1336.5	1345.6	1340.7
15°	1329.5	1324.6	1321.1	1329.5	1323.2
17.5°	1309.2	1305.0	1300.1	1308.5	1301.5
20°	1284.8	1281.3	1275.0	1279.9	1276.4
22.5°	1256.8	1251.9	1245.6	1251.2	1246.3
25°	1222.5	1219.1	1211.4	1217.0	1214.9
27.5°	1183.4	1181.3	1172.2	1179.2	1175.7
30°	1141.5	1135.9	1128.9	1131.0	1131.7
32.5°	1093.2	1086.2	1080.6	1075.8	1070.9
35°	1035.2	1028.9	1017.7	1007.3	996.1
37.5°	975.1	966.7	955.5	932.5	918.5
40°	905.2	901.0	882.8	850.7	810.1
42.5°	833.9	829.7	813.6	741.6	697.6
45°	756.3	758.4	734.6	626.3	586.5
47.5°	682.2	687.8	636.1	534.7	513.8
50°	608.1	614.4	540.3	462.0	449.5
52.5°	543.1	538.2	460.6	405.4	399.8
55°	480.2	453.6	396.3	353.7	353.7
57.5°	415.9	378.2	336.9	309.7	309.7
60°	361.4	314.5	285.9	267.7	273.3
62.5°	311.1	261.4	237.0	233.5	240.5
65°	265.6	221.6	192.2	205.5	212.5
67.5°	228.6	189.4	158.0	185.9	190.1
70°	194.3	165.0	133.5	171.3	172.0
72.5°	162.9	145.4	114.6	155.2	158.0
75°	141.2	126.5	105.5	138.4	145.4
77.5°	123.7	108.3	97.2	119.5	132.8
80°	105.5	88.8	90.2	100.7	113.9
82.5°	81.1	68.5	71.3	82.5	93.0
85°	55.9	51.7	48.2	60.8	68.5
87.5°	30.1	28.0	24.5	34.3	34.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)