

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: P290872

Luminaire Tested: **14GR-LD5-36-F125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-F125-UNV-L93050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3107.0 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

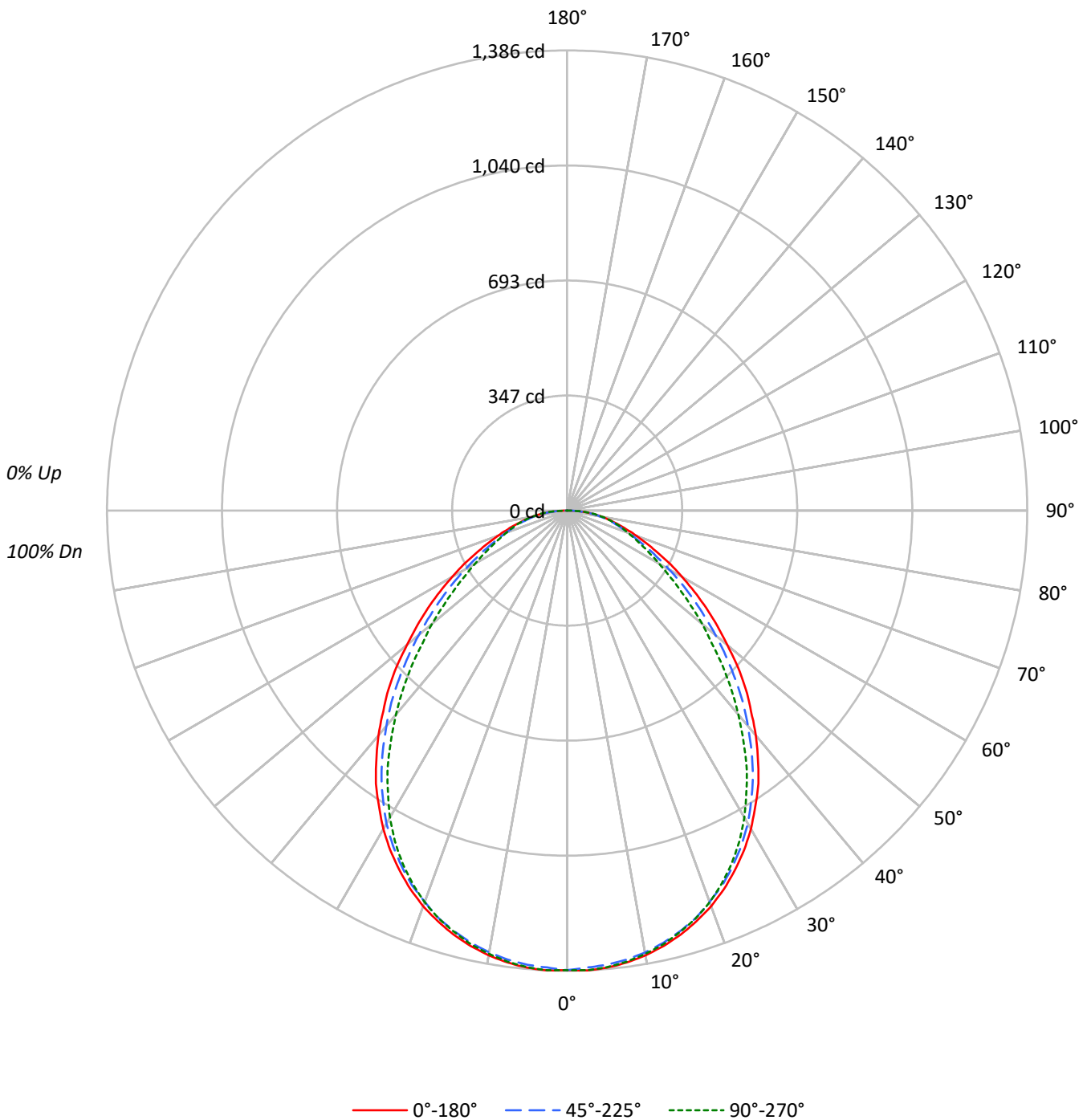
Input Watts (W): 29.853
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	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					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85					85			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3725	3725	3725
5°	3733	3709	3729
10°	3716	3692	3704
15°	3684	3655	3661
20°	3632	3592	3594
25°	3549	3506	3482
30°	3440	3381	3317
35°	3299	3203	3098
40°	3107	2974	2818
45°	2898	2723	2520
50°	2635	2442	2226
55°	2398	2166	1940
60°	2151	1907	1723
65°	1918	1699	1584
70°	1744	1549	1532
75°	1630	1509	1585
80°	1638	1559	1650
85°	1711	1599	1825



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.9	4.2
10°-20°	371.0	11.9
20°-30°	544.0	17.5
30°-40°	607.2	19.5
40°-50°	549.7	17.7
50°-60°	415.1	13.4
60°-70°	271.3	8.7
70°-80°	159.4	5.1
80°-90°	58.3	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°	1046.0	33.7
0°-40°	1653.1	53.2
0°-60°	2617.9	84.3
0°-90°	3107.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3107.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1384	1384	1384	1384	1384	
5°	1382	1379	1373	1381	1380	131
15°	1322	1320	1312	1319	1314	373
25°	1195	1191	1181	1178	1173	550
35°	1004	995	975	953	943	625
45°	761	750	715	677	662	585
55°	511	500	462	425	414	457
65°	301	292	267	252	249	302
75°	157	152	145	148	152	168
85°	55	53	52	58	59	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1384.1	1384.1	1384.1	1384.1	1384.1
2.5°	1386.3	1384.1	1377.6	1386.3	1385.6
5°	1382.0	1379.0	1373.2	1381.2	1380.5
7.5°	1373.2	1370.3	1364.5	1371.8	1370.3
10°	1360.1	1357.2	1351.3	1359.4	1355.7
12.5°	1343.3	1340.4	1333.8	1341.1	1338.2
15°	1322.2	1320.0	1312.0	1319.2	1314.1
17.5°	1296.6	1293.0	1287.2	1291.5	1287.9
20°	1268.2	1263.8	1254.3	1258.7	1255.1
22.5°	1233.9	1228.1	1221.5	1221.5	1216.4
25°	1195.3	1190.9	1180.7	1178.5	1172.7
27.5°	1153.7	1150.1	1136.9	1133.3	1123.1
30°	1107.0	1101.9	1088.1	1076.4	1067.6
32.5°	1055.2	1051.6	1032.6	1017.3	1004.9
35°	1004.2	995.4	975.0	953.2	942.9
37.5°	944.4	937.8	912.3	885.3	871.5
40°	884.6	876.6	846.7	816.8	802.2
42.5°	819.7	812.4	784.0	748.2	732.9
45°	761.4	749.7	715.4	676.8	662.2
47.5°	697.2	684.8	648.3	607.5	590.7
50°	629.4	621.3	583.4	544.0	531.6
52.5°	568.8	556.4	520.7	482.0	468.9
55°	511.2	499.5	461.6	425.2	413.5
57.5°	453.6	440.5	407.7	374.8	363.2
60°	399.6	386.5	354.4	327.4	320.1
62.5°	350.8	336.2	307.8	286.6	281.5
65°	301.2	291.7	266.9	251.6	248.7
67.5°	259.6	248.0	228.3	221.0	219.5
70°	221.7	213.7	196.9	194.7	194.7
72.5°	187.4	180.9	168.5	169.9	172.1
75°	156.8	152.4	145.1	148.0	152.4
77.5°	130.5	126.2	121.8	126.2	129.1
80°	105.7	101.4	100.6	104.3	106.5
82.5°	79.5	75.8	76.6	82.4	84.6
85°	55.4	53.2	51.8	58.3	59.1
87.5°	28.4	27.0	26.3	31.4	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)