

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: P290874

Luminaire Tested: **14GR-LD5-36-F125-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290874
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-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3414.0 lumens
Efficiency: N/A
Efficacy: 111.9 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

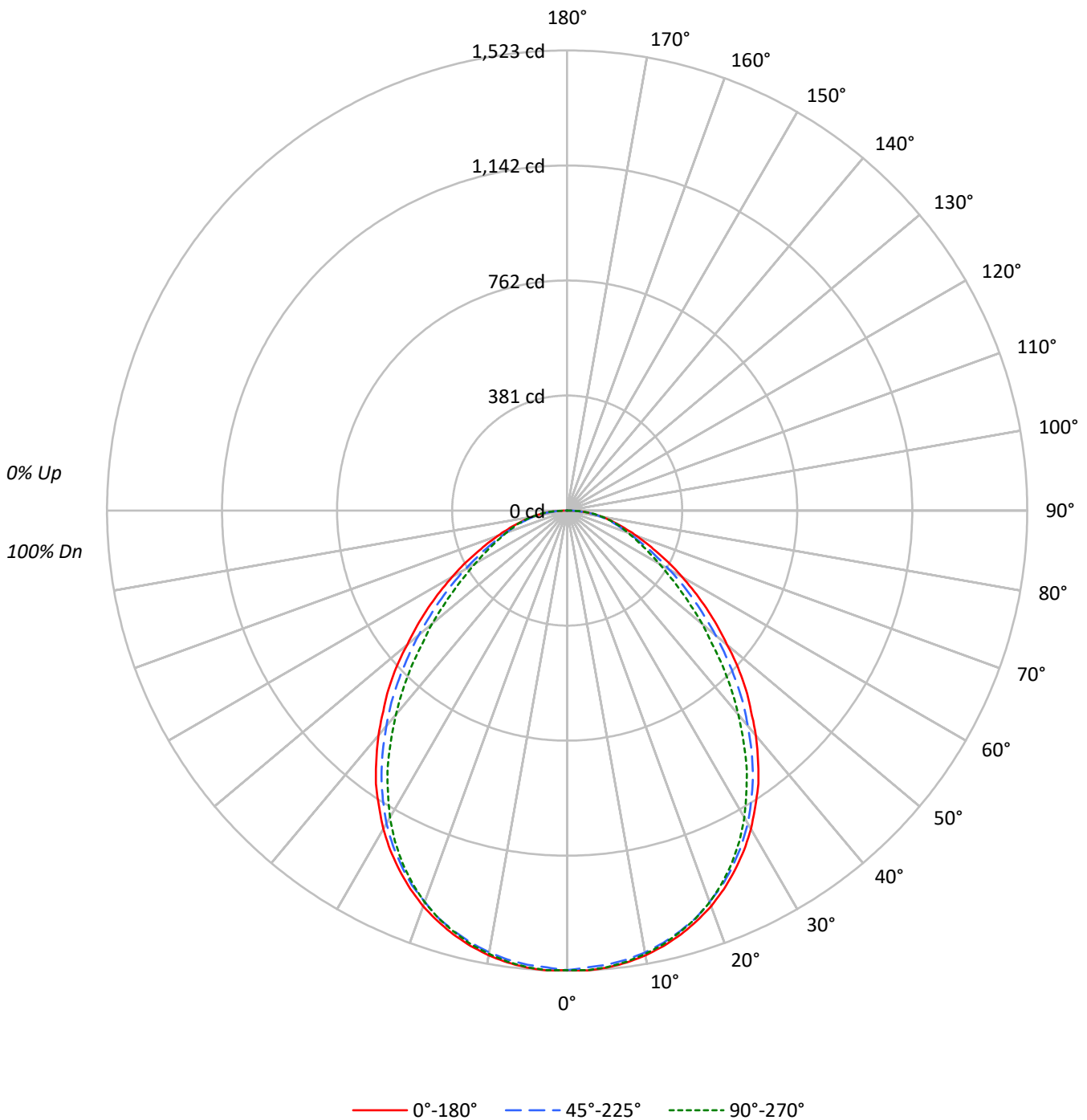
Input Watts (W): 30.504
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4093	4093	4093
5°	4102	4076	4098
10°	4084	4057	4071
15°	4047	4016	4023
20°	3991	3947	3949
25°	3900	3852	3826
30°	3780	3715	3645
35°	3625	3520	3404
40°	3414	3268	3097
45°	3184	2992	2769
50°	2895	2684	2446
55°	2635	2380	2132
60°	2363	2096	1893
65°	2107	1868	1740
70°	1917	1703	1684
75°	1791	1658	1742
80°	1801	1714	1813
85°	1880	1757	2004



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.8	4.2
10°-20°	407.7	11.9
20°-30°	597.8	17.5
30°-40°	667.2	19.5
40°-50°	604.1	17.7
50°-60°	456.1	13.4
60°-70°	298.2	8.7
70°-80°	175.1	5.1
80°-90°	64.1	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°	1149.3	33.7
0°-40°	1816.5	53.2
0°-60°	2876.6	84.3
0°-90°	3414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3414.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1521	1521	1521	1521	1521	
5°	1518	1515	1509	1518	1517	144
15°	1453	1450	1442	1450	1444	409
25°	1313	1309	1297	1295	1288	604
35°	1103	1094	1071	1047	1036	687
45°	837	824	786	744	728	643
55°	562	549	507	467	454	503
65°	331	320	293	276	273	332
75°	172	168	160	163	168	185
85°	61	58	57	64	65	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1520.9	1520.9	1520.9	1520.9	1520.9
2.5°	1523.3	1520.9	1513.7	1523.3	1522.5
5°	1518.5	1515.3	1508.9	1517.7	1516.9
7.5°	1508.9	1505.7	1499.3	1507.3	1505.7
10°	1494.5	1491.3	1484.9	1493.7	1489.7
12.5°	1476.0	1472.8	1465.6	1473.6	1470.4
15°	1452.8	1450.4	1441.6	1449.6	1444.0
17.5°	1424.8	1420.7	1414.3	1419.1	1415.1
20°	1393.5	1388.7	1378.3	1383.1	1379.1
22.5°	1355.8	1349.4	1342.2	1342.2	1336.6
25°	1313.4	1308.6	1297.3	1294.9	1288.5
27.5°	1267.7	1263.7	1249.3	1245.3	1234.0
30°	1216.4	1210.8	1195.6	1182.8	1173.1
32.5°	1159.5	1155.5	1134.7	1117.8	1104.2
35°	1103.4	1093.8	1071.4	1047.3	1036.1
37.5°	1037.7	1030.5	1002.5	972.8	957.6
40°	972.0	963.2	930.3	897.5	881.5
42.5°	900.7	892.7	861.4	822.2	805.3
45°	836.6	823.8	786.1	743.6	727.6
47.5°	766.1	752.4	712.4	667.5	649.1
50°	691.5	682.7	641.1	597.8	584.2
52.5°	625.0	611.4	572.1	529.7	515.3
55°	561.7	548.9	507.2	467.2	454.4
57.5°	498.4	484.0	447.9	411.9	399.1
60°	439.1	424.7	389.4	359.8	351.8
62.5°	385.4	369.4	338.2	314.9	309.3
65°	330.9	320.5	293.3	276.5	273.3
67.5°	285.3	272.5	250.8	242.8	241.2
70°	243.6	234.8	216.4	214.0	214.0
72.5°	205.9	198.7	185.1	186.7	189.1
75°	172.3	167.5	159.5	162.7	167.5
77.5°	143.4	138.6	133.8	138.6	141.8
80°	116.2	111.4	110.6	114.6	117.0
82.5°	87.3	83.3	84.1	90.5	93.0
85°	60.9	58.5	56.9	64.1	64.9
87.5°	31.3	29.6	28.8	34.5	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)