

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: P290924

Luminaire Tested: **14GR-LD5-36-F125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290924
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-L92765-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: 3127.0 lumens
Efficiency: N/A
Efficacy: 106.4 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

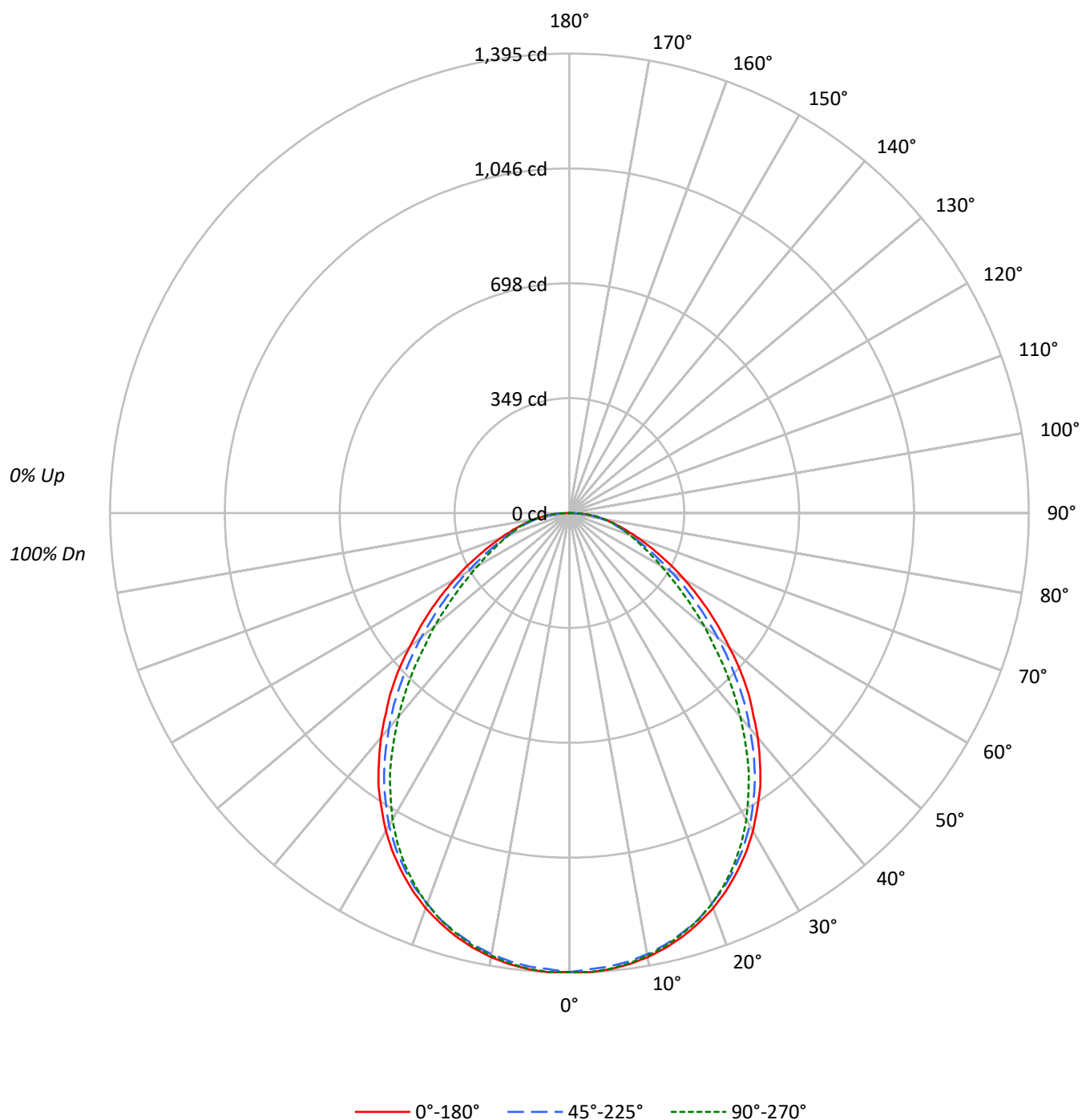
Input Watts (W): 29.388
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3749	3749	3749
5°	3757	3733	3753
10°	3740	3716	3728
15°	3707	3679	3685
20°	3655	3615	3617
25°	3572	3528	3504
30°	3462	3403	3339
35°	3320	3224	3118
40°	3127	2993	2836
45°	2916	2740	2536
50°	2652	2458	2240
55°	2414	2180	1953
60°	2165	1920	1734
65°	1930	1710	1594
70°	1755	1559	1542
75°	1641	1519	1595
80°	1649	1570	1661
85°	1723	1609	1837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	4.2
10°-20°	373.4	11.9
20°-30°	547.5	17.5
30°-40°	611.1	19.5
40°-50°	553.3	17.7
50°-60°	417.7	13.4
60°-70°	273.1	8.7
70°-80°	160.4	5.1
80°-90°	58.7	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°	1052.7	33.7
0°-40°	1663.8	53.2
0°-60°	2634.8	84.3
0°-90°	3127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3127.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1393	1393	1393	1393	1393	
5°	1391	1388	1382	1390	1389	132
15°	1331	1328	1320	1328	1323	375
25°	1203	1199	1188	1186	1180	553
35°	1011	1002	981	959	949	629
45°	766	754	720	681	666	589
55°	514	503	465	428	416	460
65°	303	294	269	253	250	304
75°	158	153	146	149	153	169
85°	56	54	52	59	60	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1393.1	1393.1	1393.1	1393.1	1393.1
2.5°	1395.3	1393.1	1386.5	1395.3	1394.5
5°	1390.9	1387.9	1382.0	1390.1	1389.4
7.5°	1382.0	1379.1	1373.2	1380.6	1379.1
10°	1368.8	1365.9	1360.0	1368.1	1364.4
12.5°	1352.0	1349.0	1342.4	1349.8	1346.8
15°	1330.7	1328.5	1320.4	1327.7	1322.6
17.5°	1305.0	1301.3	1295.4	1299.8	1296.2
20°	1276.4	1272.0	1262.4	1266.8	1263.1
22.5°	1241.9	1236.0	1229.4	1229.4	1224.2
25°	1203.0	1198.6	1188.3	1186.1	1180.2
27.5°	1161.1	1157.5	1144.2	1140.6	1130.3
30°	1114.2	1109.0	1095.1	1083.3	1074.5
32.5°	1062.0	1058.4	1039.3	1023.9	1011.4
35°	1010.7	1001.9	981.3	959.3	949.0
37.5°	950.5	943.9	918.2	891.0	877.1
40°	890.3	882.2	852.1	822.0	807.4
42.5°	825.0	817.6	789.0	753.0	737.6
45°	766.3	754.5	720.0	681.1	666.4
47.5°	701.7	689.2	652.5	611.4	594.5
50°	633.4	625.3	587.2	547.5	535.1
52.5°	572.5	560.0	524.0	485.1	471.9
55°	514.5	502.8	464.6	427.9	416.2
57.5°	456.5	443.3	410.3	377.3	365.5
60°	402.2	389.0	356.7	329.5	322.2
62.5°	353.0	338.4	309.7	288.4	283.3
65°	303.1	293.6	268.6	253.2	250.3
67.5°	261.3	249.5	229.7	222.4	220.9
70°	223.1	215.1	198.2	196.0	196.0
72.5°	188.6	182.0	169.5	171.0	173.2
75°	157.8	153.4	146.1	149.0	153.4
77.5°	131.4	127.0	122.6	127.0	129.9
80°	106.4	102.0	101.3	105.0	107.2
82.5°	80.0	76.3	77.1	82.9	85.1
85°	55.8	53.6	52.1	58.7	59.5
87.5°	28.6	27.2	26.4	31.6	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)