

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: P290920

Luminaire Tested: **14GR-LD5-32-F125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290920
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-LD5-32-F125-UNV-L92765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3083.0 lumens
Efficiency: N/A
Efficacy: 116.7 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

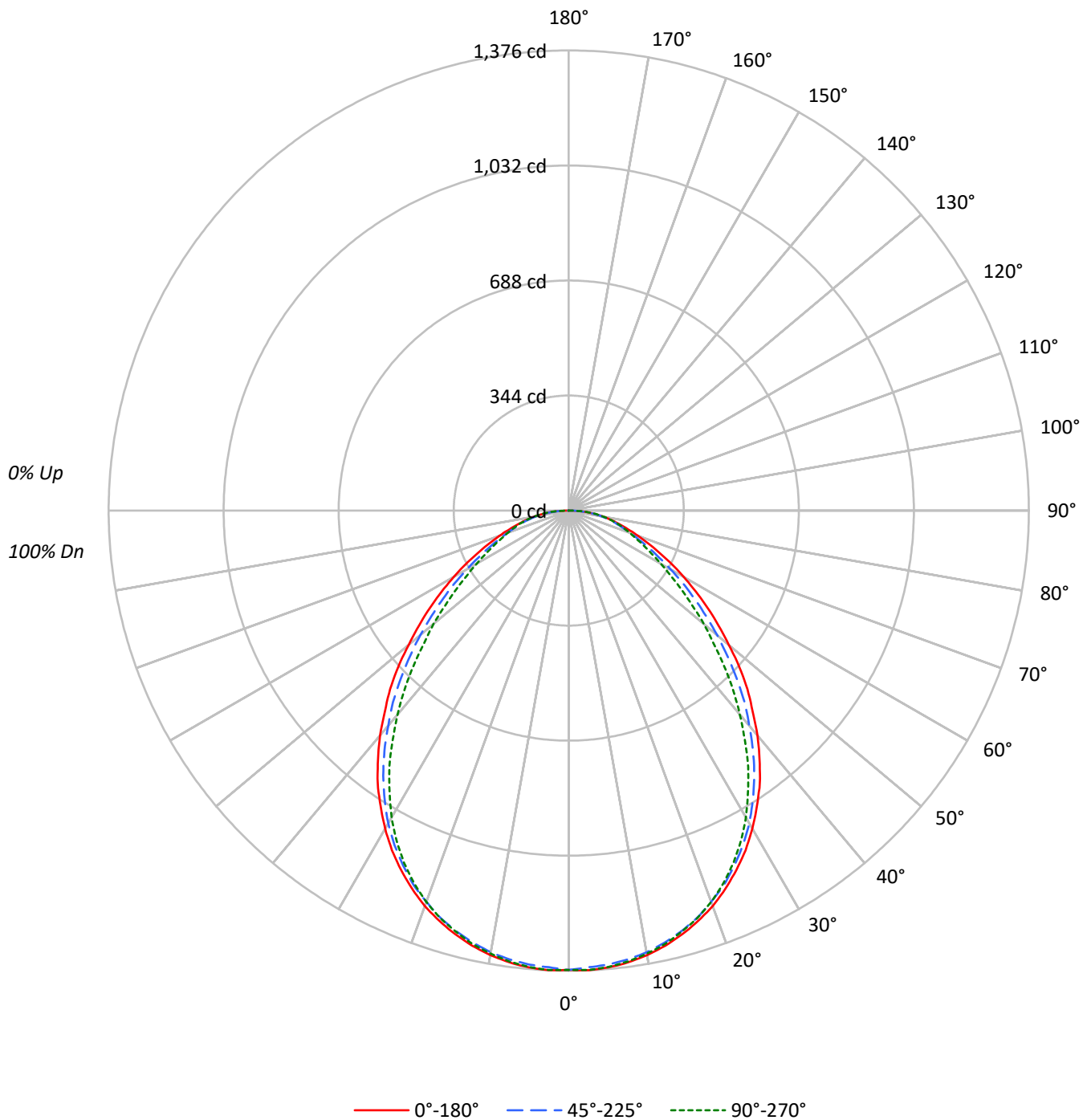
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3696	3696	3696
5°	3704	3681	3700
10°	3688	3664	3676
15°	3655	3627	3633
20°	3604	3564	3566
25°	3521	3479	3455
30°	3413	3355	3292
35°	3273	3178	3074
40°	3084	2951	2796
45°	2875	2702	2501
50°	2614	2424	2208
55°	2380	2149	1925
60°	2134	1893	1710
65°	1903	1686	1571
70°	1731	1537	1520
75°	1618	1497	1572
80°	1626	1548	1638
85°	1698	1587	1809



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	4.2
10°-20°	368.2	11.9
20°-30°	539.8	17.5
30°-40°	602.5	19.5
40°-50°	545.5	17.7
50°-60°	411.9	13.4
60°-70°	269.3	8.7
70°-80°	158.1	5.1
80°-90°	57.9	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°	1037.9	33.7
0°-40°	1640.4	53.2
0°-60°	2597.7	84.3
0°-90°	3083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3083.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1371	1368	1363	1371	1370	130
15°	1312	1310	1302	1309	1304	370
25°	1186	1182	1172	1169	1164	546
35°	996	988	968	946	936	621
45°	756	744	710	672	657	580
55°	507	496	458	422	410	454
65°	299	290	265	250	247	300
75°	156	151	144	147	151	167
85°	55	53	51	58	59	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1373.5	1373.5	1373.5	1373.5	1373.5
2.5°	1375.6	1373.5	1366.9	1375.6	1374.9
5°	1371.3	1368.4	1362.6	1370.6	1369.8
7.5°	1362.6	1359.7	1353.9	1361.2	1359.7
10°	1349.6	1346.7	1340.9	1348.9	1345.2
12.5°	1332.9	1330.0	1323.5	1330.8	1327.9
15°	1311.9	1309.8	1301.8	1309.1	1304.0
17.5°	1286.6	1283.0	1277.2	1281.6	1277.9
20°	1258.4	1254.1	1244.7	1249.0	1245.4
22.5°	1224.4	1218.6	1212.1	1212.1	1207.0
25°	1186.0	1181.7	1171.6	1169.4	1163.6
27.5°	1144.8	1141.2	1128.1	1124.5	1114.4
30°	1098.5	1093.4	1079.7	1068.1	1059.4
32.5°	1047.1	1043.5	1024.7	1009.5	997.2
35°	996.4	987.8	967.5	945.8	935.7
37.5°	937.1	930.6	905.3	878.5	864.7
40°	877.8	869.8	840.1	810.5	796.0
42.5°	813.4	806.1	777.9	742.4	727.3
45°	755.5	743.9	709.9	671.5	657.1
47.5°	691.8	679.5	643.3	602.8	586.1
50°	624.5	616.5	578.9	539.8	527.5
52.5°	564.4	552.1	516.7	478.3	465.3
55°	507.3	495.7	458.1	421.9	410.3
57.5°	450.1	437.1	404.5	371.9	360.4
60°	396.6	383.5	351.7	324.9	317.7
62.5°	348.1	333.6	305.4	284.4	279.3
65°	298.9	289.5	264.8	249.7	246.8
67.5°	257.6	246.0	226.5	219.3	217.8
70°	220.0	212.0	195.4	193.2	193.2
72.5°	186.0	179.5	167.2	168.6	170.8
75°	155.6	151.2	144.0	146.9	151.2
77.5°	129.5	125.2	120.8	125.2	128.1
80°	104.9	100.6	99.9	103.5	105.7
82.5°	78.9	75.3	76.0	81.8	83.9
85°	55.0	52.8	51.4	57.9	58.6
87.5°	28.2	26.8	26.1	31.1	29.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)