

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: P290934

Luminaire Tested: **14GR-LD5-40-F125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290934
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-LD5-40-F125-UNV-L92765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3612.0 lumens
Efficiency: N/A
Efficacy: 106.1 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

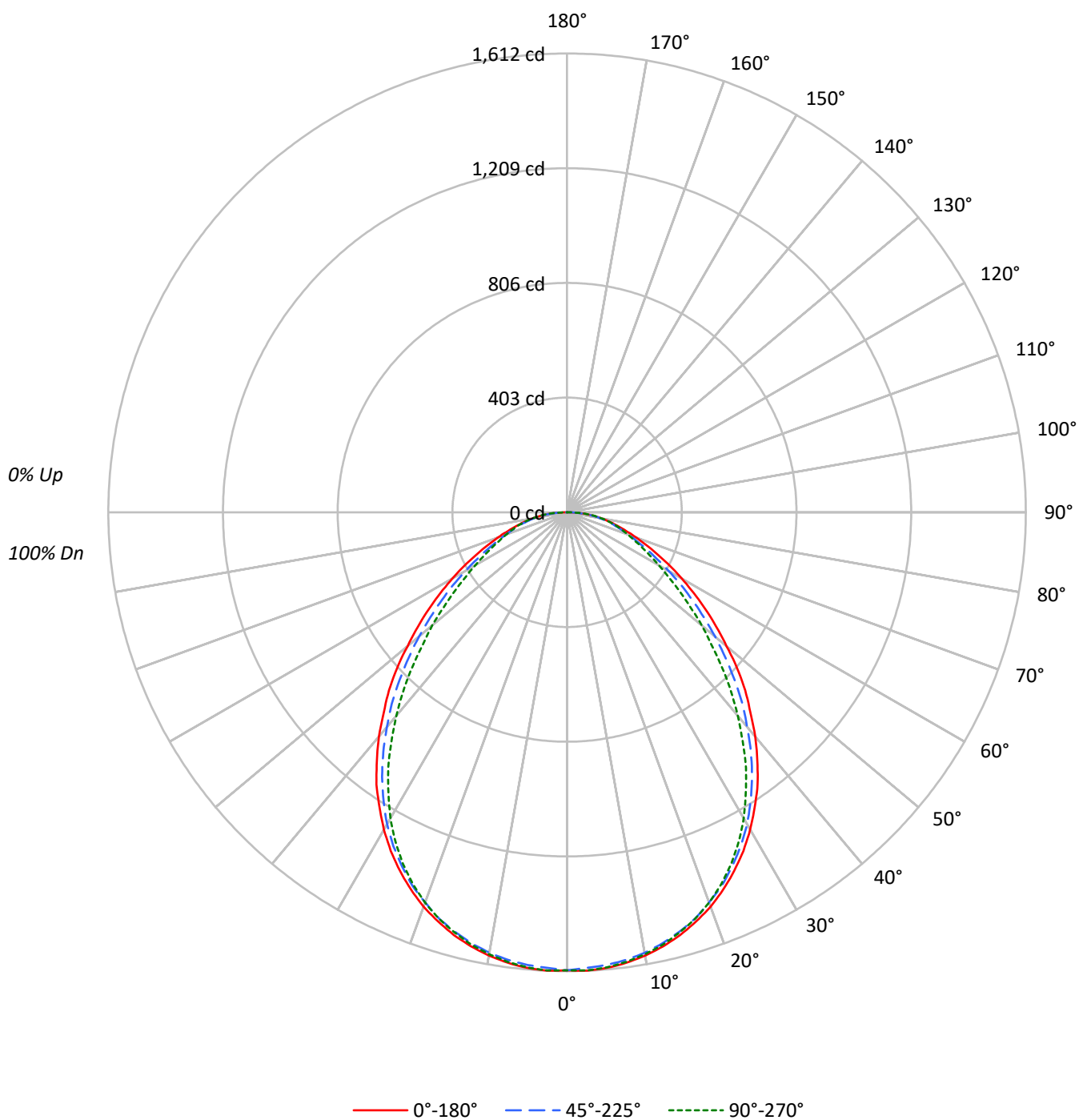
Input Watts (W): 34.038
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4330	4330	4330
5°	4340	4312	4335
10°	4320	4293	4307
15°	4282	4249	4256
20°	4222	4176	4178
25°	4126	4075	4048
30°	3999	3930	3857
35°	3835	3724	3601
40°	3613	3458	3276
45°	3368	3165	2930
50°	3063	2839	2587
55°	2788	2518	2255
60°	2500	2217	2003
65°	2229	1976	1841
70°	2028	1801	1781
75°	1895	1754	1842
80°	1905	1813	1918
85°	1988	1859	2121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.2	4.2
10°-20°	431.3	11.9
20°-30°	632.4	17.5
30°-40°	705.9	19.5
40°-50°	639.1	17.7
50°-60°	482.5	13.4
60°-70°	315.4	8.7
70°-80°	185.3	5.1
80°-90°	67.8	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°	1216.0	33.7
0°-40°	1921.8	53.2
0°-60°	3043.5	84.3
0°-90°	3612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3612.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1609	1609	1609	1609	1609	
5°	1607	1603	1596	1606	1605	153
15°	1537	1534	1525	1534	1528	433
25°	1390	1384	1373	1370	1363	639
35°	1167	1157	1134	1108	1096	727
45°	885	872	832	787	770	680
55°	594	581	537	494	481	532
65°	350	339	310	292	289	351
75°	182	177	169	172	177	196
85°	64	62	60	68	69	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1609.1	1609.1	1609.1	1609.1	1609.1
2.5°	1611.7	1609.1	1601.5	1611.7	1610.8
5°	1606.6	1603.2	1596.4	1605.7	1604.9
7.5°	1596.4	1593.0	1586.2	1594.7	1593.0
10°	1581.1	1577.8	1571.0	1580.3	1576.1
12.5°	1561.6	1558.3	1550.6	1559.1	1555.7
15°	1537.1	1534.5	1525.2	1533.7	1527.7
17.5°	1507.4	1503.1	1496.4	1501.5	1497.2
20°	1474.3	1469.2	1458.2	1463.3	1459.1
22.5°	1434.5	1427.7	1420.1	1420.1	1414.1
25°	1389.5	1384.5	1372.6	1370.0	1363.3
27.5°	1341.2	1337.0	1321.7	1317.5	1305.6
30°	1287.0	1281.0	1264.9	1251.4	1241.2
32.5°	1226.8	1222.5	1200.5	1182.7	1168.3
35°	1167.4	1157.2	1133.5	1108.1	1096.2
37.5°	1097.9	1090.3	1060.6	1029.2	1013.1
40°	1028.4	1019.1	984.3	949.5	932.6
42.5°	952.9	944.4	911.4	869.8	852.0
45°	885.1	871.5	831.7	786.8	769.8
47.5°	810.5	796.1	753.7	706.2	686.7
50°	731.7	722.3	678.2	632.5	618.0
52.5°	661.3	646.9	605.3	560.4	545.1
55°	594.3	580.7	536.7	494.3	480.7
57.5°	527.3	512.1	473.9	435.8	422.2
60°	464.6	449.3	412.0	380.7	372.2
62.5°	407.8	390.8	357.8	333.2	327.3
65°	350.1	339.1	310.3	292.5	289.1
67.5°	301.8	288.3	265.4	256.9	255.2
70°	257.7	248.4	228.9	226.4	226.4
72.5°	217.9	210.3	195.8	197.5	200.1
75°	182.3	177.2	168.7	172.1	177.2
77.5°	151.8	146.7	141.6	146.7	150.1
80°	122.9	117.8	117.0	121.2	123.8
82.5°	92.4	88.2	89.0	95.8	98.3
85°	64.4	61.9	60.2	67.8	68.7
87.5°	33.1	31.4	30.5	36.5	34.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)