

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: P290843

Luminaire Tested: **14GR-LD5-43-F125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290843
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-LD5-43-F125-UNV-L82765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4119.0 lumens
Efficiency: N/A
Efficacy: 113.6 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

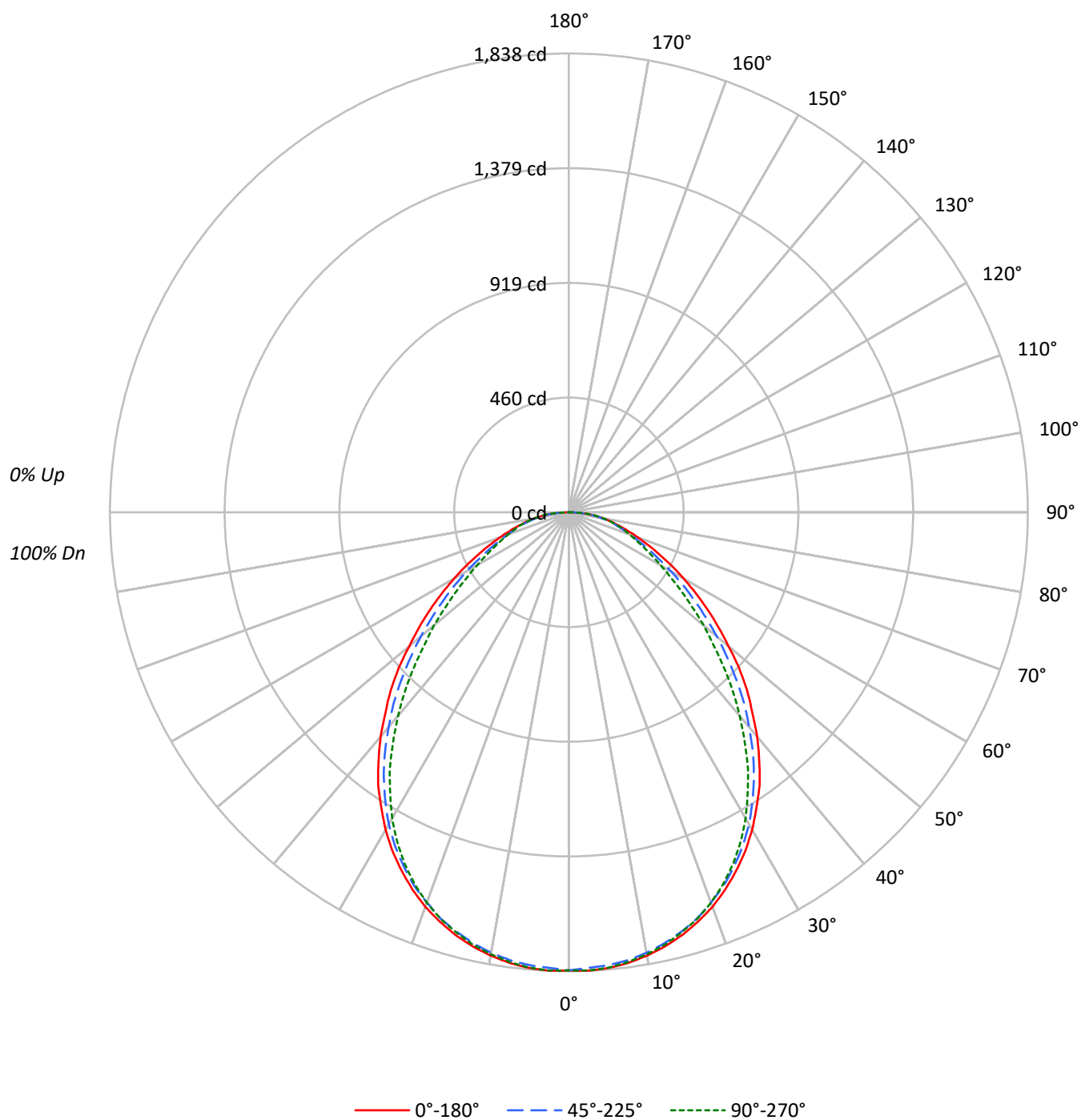
Input Watts (W): 36.27
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4938	4938	4938
5°	4949	4918	4944
10°	4927	4895	4911
15°	4883	4846	4854
20°	4815	4762	4765
25°	4705	4648	4616
30°	4560	4482	4398
35°	4373	4246	4107
40°	4119	3943	3736
45°	3841	3609	3341
50°	3493	3238	2951
55°	3179	2871	2572
60°	2851	2529	2284
65°	2543	2253	2099
70°	2312	2054	2031
75°	2162	2000	2101
80°	2173	2067	2188
85°	2269	2118	2418



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.5	4.2
10°-20°	491.9	11.9
20°-30°	721.2	17.5
30°-40°	805.0	19.5
40°-50°	728.8	17.7
50°-60°	550.3	13.4
60°-70°	359.7	8.7
70°-80°	211.3	5.1
80°-90°	77.3	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°	1386.6	33.7
0°-40°	2191.6	53.2
0°-60°	3470.7	84.3
0°-90°	4119.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4119.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1835	1835	1835	1835	1835	
5°	1832	1828	1820	1831	1830	174
15°	1753	1750	1739	1749	1742	494
25°	1585	1579	1565	1562	1555	729
35°	1331	1320	1293	1264	1250	829
45°	1009	994	948	897	878	776
55°	678	662	612	564	548	606
65°	399	387	354	334	330	401
75°	208	202	192	196	202	223
85°	74	71	69	77	78	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1835.0	1835.0	1835.0	1835.0	1835.0
2.5°	1837.9	1835.0	1826.3	1837.9	1836.9
5°	1832.1	1828.2	1820.5	1831.1	1830.2
7.5°	1820.5	1816.6	1808.9	1818.6	1816.6
10°	1803.1	1799.2	1791.5	1802.1	1797.3
12.5°	1780.8	1777.0	1768.3	1777.9	1774.1
15°	1752.8	1749.9	1739.3	1748.9	1742.2
17.5°	1719.0	1714.1	1706.4	1712.2	1707.4
20°	1681.3	1675.5	1662.9	1668.7	1663.9
22.5°	1635.8	1628.1	1619.4	1619.4	1612.6
25°	1584.6	1578.8	1565.3	1562.4	1554.6
27.5°	1529.5	1524.6	1507.2	1502.4	1488.9
30°	1467.6	1460.8	1442.5	1427.0	1415.4
32.5°	1399.0	1394.1	1369.0	1348.7	1332.3
35°	1331.3	1319.7	1292.6	1263.6	1250.1
37.5°	1252.0	1243.3	1209.5	1173.7	1155.3
40°	1172.7	1162.1	1122.5	1082.8	1063.5
42.5°	1086.7	1077.0	1039.3	991.9	971.6
45°	1009.3	993.9	948.4	897.2	877.9
47.5°	924.3	907.8	859.5	805.3	783.1
50°	834.3	823.7	773.4	721.2	704.8
52.5°	754.1	737.7	690.3	639.1	621.7
55°	677.7	662.3	612.0	563.6	548.2
57.5°	601.4	583.9	540.4	496.9	481.5
60°	529.8	512.4	469.9	434.1	424.4
62.5°	465.0	445.7	408.0	380.0	373.2
65°	399.3	386.7	353.8	333.5	329.7
67.5°	344.2	328.7	302.6	292.9	291.0
70°	293.9	283.3	261.0	258.1	258.1
72.5°	248.5	239.8	223.3	225.3	228.2
75°	207.9	202.1	192.4	196.3	202.1
77.5°	173.1	167.3	161.5	167.3	171.1
80°	140.2	134.4	133.4	138.3	141.2
82.5°	105.4	100.5	101.5	109.2	112.1
85°	73.5	70.6	68.6	77.3	78.3
87.5°	37.7	35.8	34.8	41.6	39.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)