

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: P290943

Luminaire Tested: **14GR-LD5-43-F125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290943
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-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: 3853.0 lumens
Efficiency: N/A
Efficacy: 104.1 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

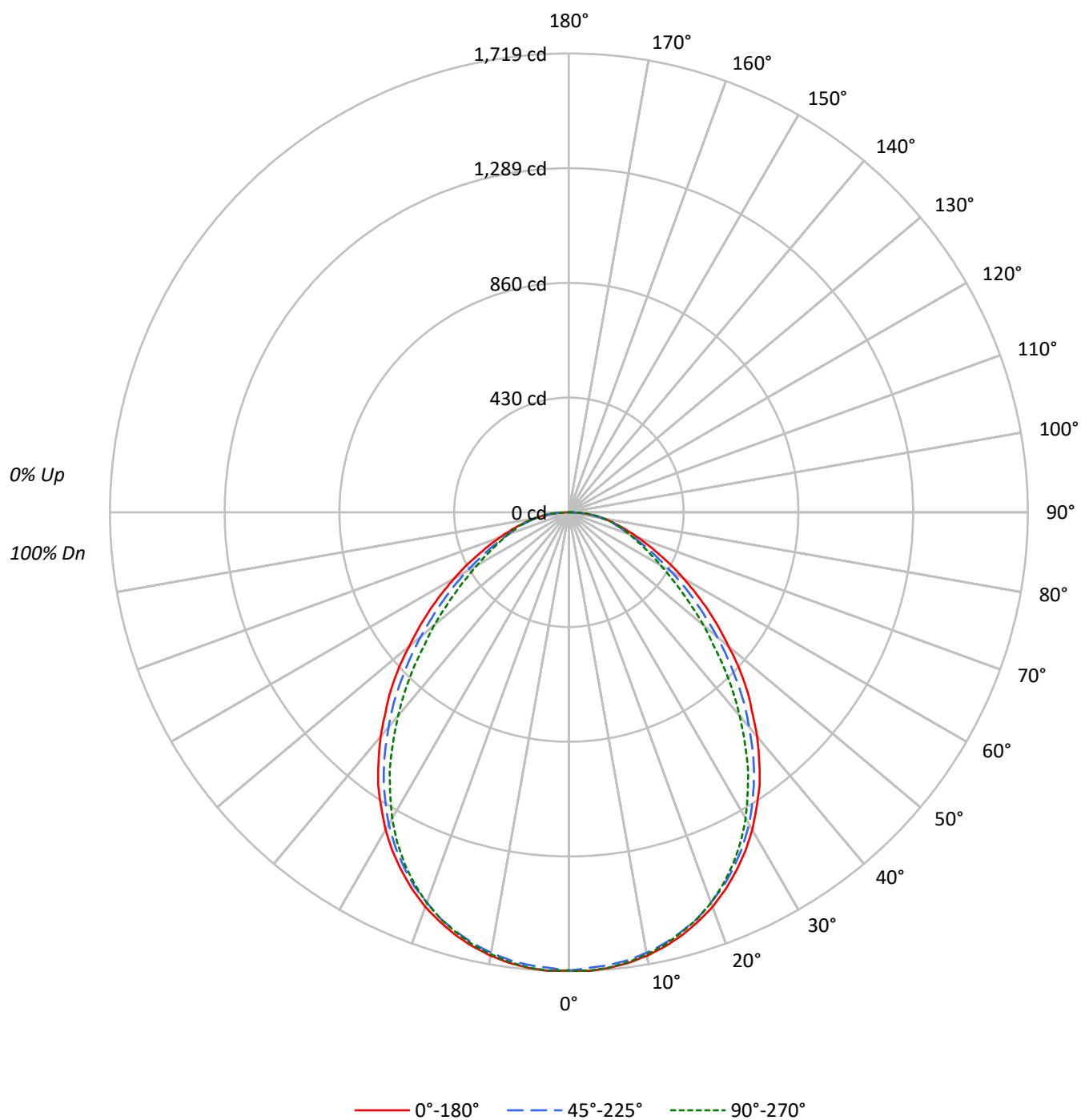
Input Watts (W): 37.014
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4619	4619	4619
5°	4629	4600	4625
10°	4609	4579	4594
15°	4568	4533	4540
20°	4504	4454	4457
25°	4401	4347	4318
30°	4266	4193	4114
35°	4091	3972	3841
40°	3854	3688	3495
45°	3593	3376	3125
50°	3268	3029	2760
55°	2974	2686	2406
60°	2667	2365	2137
65°	2378	2108	1964
70°	2163	1921	1900
75°	2021	1871	1965
80°	2032	1934	2046
85°	2121	1982	2263



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.3	4.2
10°-20°	460.1	11.9
20°-30°	674.6	17.5
30°-40°	753.0	19.5
40°-50°	681.7	17.7
50°-60°	514.7	13.4
60°-70°	336.5	8.7
70°-80°	197.6	5.1
80°-90°	72.4	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°	1297.1	33.7
0°-40°	2050.1	53.2
0°-60°	3246.5	84.3
0°-90°	3853.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3853.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1716	1716	1716	1716	1716	
5°	1714	1710	1703	1713	1712	163
15°	1640	1637	1627	1636	1630	462
25°	1482	1477	1464	1462	1454	682
35°	1245	1234	1209	1182	1169	776
45°	944	930	887	839	821	725
55°	634	620	572	527	513	567
65°	374	362	331	312	308	375
75°	194	189	180	184	189	209
85°	69	66	64	72	73	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1716.5	1716.5	1716.5	1716.5	1716.5
2.5°	1719.2	1716.5	1708.3	1719.2	1718.3
5°	1713.8	1710.2	1702.9	1712.9	1712.0
7.5°	1702.9	1699.3	1692.1	1701.1	1699.3
10°	1686.6	1683.0	1675.8	1685.7	1681.2
12.5°	1665.8	1662.2	1654.1	1663.1	1659.5
15°	1639.6	1636.9	1627.0	1636.0	1629.7
17.5°	1608.0	1603.4	1596.2	1601.6	1597.1
20°	1572.7	1567.3	1555.5	1560.9	1556.4
22.5°	1530.2	1523.0	1514.8	1514.8	1508.5
25°	1482.3	1476.8	1464.2	1461.5	1454.2
27.5°	1430.7	1426.2	1409.9	1405.4	1392.7
30°	1372.8	1366.5	1349.3	1334.8	1324.0
32.5°	1308.6	1304.1	1280.6	1261.6	1246.2
35°	1245.3	1234.5	1209.1	1182.0	1169.3
37.5°	1171.2	1163.0	1131.4	1097.9	1080.7
40°	1097.0	1087.0	1050.0	1012.9	994.8
42.5°	1016.5	1007.5	972.2	927.9	908.9
45°	944.2	929.7	887.2	839.3	821.2
47.5°	864.6	849.2	804.0	753.3	732.5
50°	780.5	770.5	723.5	674.7	659.3
52.5°	705.4	690.0	645.7	597.8	581.5
55°	634.0	619.5	572.5	527.2	512.8
57.5°	562.5	546.2	505.5	464.8	450.4
60°	495.6	479.3	439.5	406.1	397.0
62.5°	435.0	416.9	381.6	355.4	349.1
65°	373.5	361.7	331.0	312.0	308.4
67.5°	322.0	307.5	283.1	274.0	272.2
70°	274.9	265.0	244.2	241.5	241.5
72.5°	232.4	224.3	208.9	210.7	213.4
75°	194.4	189.0	180.0	183.6	189.0
77.5°	161.9	156.5	151.0	156.5	160.1
80°	131.1	125.7	124.8	129.3	132.0
82.5°	98.6	94.1	95.0	102.2	104.9
85°	68.7	66.0	64.2	72.3	73.3
87.5°	35.3	33.5	32.6	38.9	37.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)