

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: P291241

Luminaire Tested: **14GR-LD5-43-A125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-A125-UNV-L82765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4602.0 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

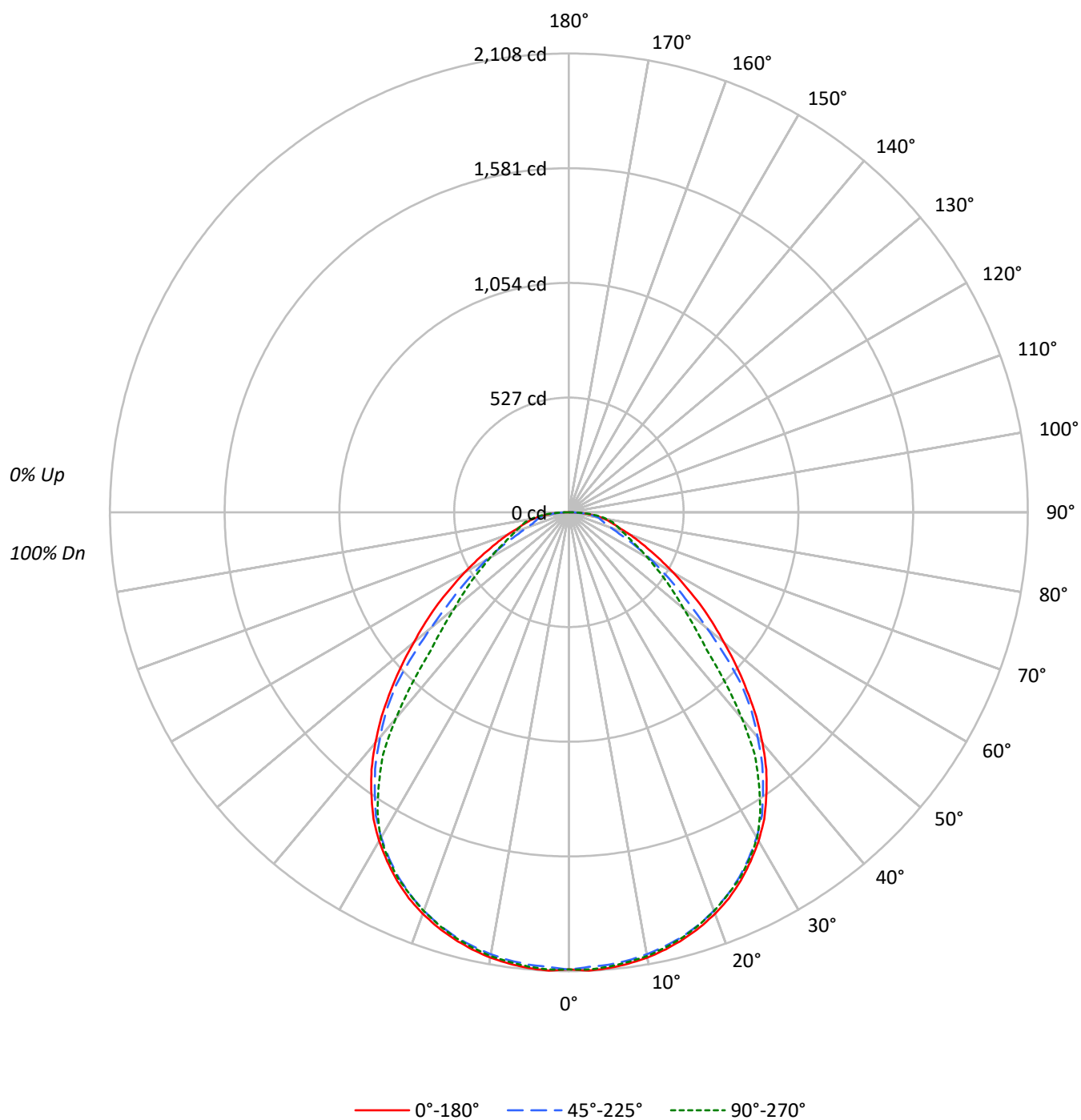
Input Watts (W): 37.572
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	101	94	88	82	99	92	86	82	88	84	80		85	81	78		82
3	93	84	76	70	91	82	75	70	79	73	69		77	72	67		74
4	86	75	67	61	84	74	66	61	71	65	60		69	64	59		67
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		61
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		56
7	69	56	48	43	67	56	48	42	54	47	42		53	47	42		52
8	65	52	44	38	63	51	44	38	50	43	38		49	42	38		48
9	60	48	40	35	59	47	40	35	46	39	35		45	39	34		44
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5651	5651	5651
5°	5679	5635	5661
10°	5677	5633	5657
15°	5657	5621	5630
20°	5619	5577	5583
25°	5544	5494	5509
30°	5417	5358	5371
35°	5194	5107	4998
40°	4857	4737	4347
45°	4396	4270	3409
50°	3888	3455	2874
55°	3441	2840	2534
60°	2971	2350	2246
65°	2583	1869	2067
70°	2335	1604	2066
75°	2243	1676	2309
80°	2498	2134	2696
85°	2637	2276	3230



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.2	4.3
10°-20°	570.9	12.4
20°-30°	854.3	18.6
30°-40°	967.1	21.0
40°-50°	823.8	17.9
50°-60°	557.8	12.1
60°-70°	333.0	7.2
70°-80°	208.0	4.5
80°-90°	87.9	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°	1624.4	35.3
0°-40°	2591.5	56.3
0°-60°	3973.0	86.3
0°-90°	4602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4602.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2100	2100	2100	2100	2100	
5°	2102	2097	2086	2099	2096	200
15°	2031	2023	2018	2031	2021	573
25°	1867	1862	1850	1859	1856	859
35°	1581	1572	1554	1538	1521	986
45°	1155	1158	1122	957	896	891
55°	734	693	605	540	540	656
65°	406	338	294	314	325	409
75°	216	193	161	211	222	233
85°	85	79	74	93	105	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2100.0	2100.0	2100.0	2100.0	2100.0
2.5°	2107.5	2102.2	2090.4	2104.3	2102.2
5°	2102.2	2096.8	2086.2	2099.0	2095.8
7.5°	2091.5	2086.2	2076.5	2089.4	2084.0
10°	2077.6	2071.2	2061.6	2075.5	2070.1
12.5°	2056.3	2049.9	2041.3	2055.2	2047.7
15°	2030.6	2023.2	2017.8	2030.6	2021.0
17.5°	1999.7	1993.3	1985.8	1998.6	1987.9
20°	1962.3	1957.0	1947.4	1954.8	1949.5
22.5°	1919.6	1912.1	1902.5	1911.1	1903.6
25°	1867.3	1862.0	1850.2	1858.8	1855.5
27.5°	1807.5	1804.3	1790.4	1801.1	1795.8
30°	1743.4	1734.9	1724.2	1727.4	1728.5
32.5°	1669.8	1659.1	1650.6	1643.1	1635.6
35°	1581.2	1571.6	1554.5	1538.5	1521.4
37.5°	1489.4	1476.5	1459.5	1424.2	1402.9
40°	1382.6	1376.2	1348.4	1299.3	1237.4
42.5°	1273.7	1267.3	1242.7	1132.8	1065.5
45°	1155.2	1158.4	1122.1	956.6	895.7
47.5°	1042.0	1050.6	971.5	816.7	784.7
50°	928.8	938.5	825.3	705.7	686.5
52.5°	829.6	822.1	703.6	619.2	610.7
55°	733.5	692.9	605.3	540.2	540.2
57.5°	635.2	577.6	514.6	473.0	473.0
60°	552.0	480.4	436.7	408.9	417.4
62.5°	475.1	399.3	361.9	356.6	367.3
65°	405.7	338.4	293.6	313.9	324.6
67.5°	349.1	289.3	241.3	284.0	290.4
70°	296.8	252.0	203.9	261.6	262.6
72.5°	248.8	222.1	175.1	237.0	241.3
75°	215.7	193.2	161.2	211.4	222.1
77.5°	189.0	165.5	148.4	182.6	202.9
80°	161.2	135.6	137.7	153.7	174.0
82.5°	123.8	104.6	108.9	126.0	142.0
85°	85.4	79.0	73.7	92.9	104.6
87.5°	45.9	42.7	37.4	52.3	53.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)