

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: P291237

Luminaire Tested: **14GR-LD5-43-A125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291237
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-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4406.0 lumens
Efficiency: N/A
Efficacy: 119.0 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

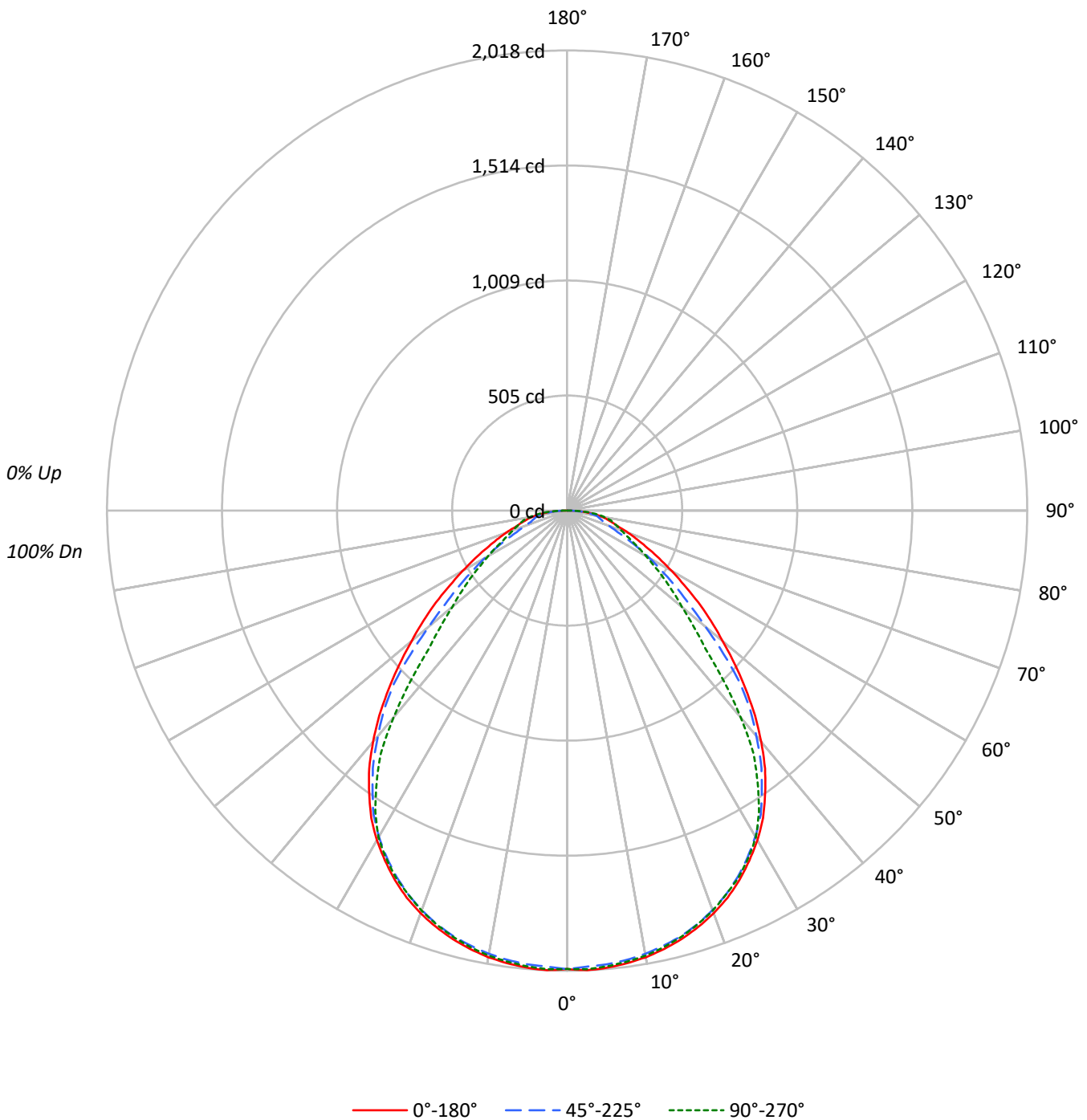
Input Watts (W): 37.014
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5410	5410	5410
5°	5437	5395	5420
10°	5435	5393	5416
15°	5416	5382	5391
20°	5380	5339	5345
25°	5308	5260	5275
30°	5187	5129	5142
35°	4973	4889	4785
40°	4650	4535	4162
45°	4209	4088	3264
50°	3723	3308	2752
55°	3294	2719	2426
60°	2844	2250	2151
65°	2473	1790	1978
70°	2236	1536	1979
75°	2147	1604	2210
80°	2391	2044	2582
85°	2526	2177	3094



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.7	4.3
10°-20°	546.6	12.4
20°-30°	818.0	18.6
30°-40°	925.9	21.0
40°-50°	788.7	17.9
50°-60°	534.0	12.1
60°-70°	318.8	7.2
70°-80°	199.2	4.5
80°-90°	84.2	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°	1555.2	35.3
0°-40°	2481.1	56.3
0°-60°	3803.8	86.3
0°-90°	4406.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4406.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2011	2011	2011	2011	2011	
5°	2013	2008	1997	2010	2006	191
15°	1944	1937	1932	1944	1935	548
25°	1788	1783	1771	1780	1776	822
35°	1514	1505	1488	1473	1457	944
45°	1106	1109	1074	916	858	853
55°	702	663	580	517	517	628
65°	388	324	281	300	311	391
75°	206	185	154	202	213	223
85°	82	76	70	89	100	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2010.6	2010.6	2010.6	2010.6	2010.6
2.5°	2017.8	2012.6	2001.4	2014.7	2012.6
5°	2012.6	2007.5	1997.3	2009.6	2006.5
7.5°	2002.4	1997.3	1988.1	2000.4	1995.3
10°	1989.1	1983.0	1973.8	1987.1	1982.0
12.5°	1968.7	1962.6	1954.4	1967.7	1960.5
15°	1944.2	1937.0	1931.9	1944.2	1935.0
17.5°	1914.5	1908.4	1901.2	1913.5	1903.3
20°	1878.7	1873.6	1864.4	1871.6	1866.5
22.5°	1837.9	1830.7	1821.5	1829.7	1822.5
25°	1787.8	1782.7	1771.4	1779.6	1776.5
27.5°	1730.5	1727.5	1714.2	1724.4	1719.3
30°	1669.2	1661.0	1650.8	1653.9	1654.9
32.5°	1598.7	1588.4	1580.3	1573.1	1566.0
35°	1513.8	1504.6	1488.3	1472.9	1456.6
37.5°	1425.9	1413.7	1397.3	1363.6	1343.1
40°	1323.7	1317.6	1291.0	1244.0	1184.7
42.5°	1219.4	1213.3	1189.8	1084.5	1020.1
45°	1106.0	1109.0	1074.3	915.9	857.6
47.5°	997.6	1005.8	930.2	782.0	751.3
50°	889.3	898.5	790.1	675.7	657.3
52.5°	794.2	787.1	673.6	592.9	584.7
55°	702.2	663.4	579.6	517.2	517.2
57.5°	608.2	553.0	492.7	452.8	452.8
60°	528.5	460.0	418.1	391.5	399.7
62.5°	454.9	382.3	346.5	341.4	351.6
65°	388.4	324.0	281.1	300.5	310.7
67.5°	334.2	277.0	231.0	271.9	278.0
70°	284.2	241.2	195.2	250.4	251.5
72.5°	238.2	212.6	167.6	226.9	231.0
75°	206.5	185.0	154.3	202.4	212.6
77.5°	180.9	158.4	142.1	174.8	194.2
80°	154.3	129.8	131.9	147.2	166.6
82.5°	118.6	100.2	104.3	120.6	135.9
85°	81.8	75.6	70.5	88.9	100.2
87.5°	44.0	40.9	35.8	50.1	51.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)