

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: P291176

Luminaire Tested: **14GR-LD5-43-A125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291176
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-L83050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4414.0 lumens
Efficiency: N/A
Efficacy: 120.8 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

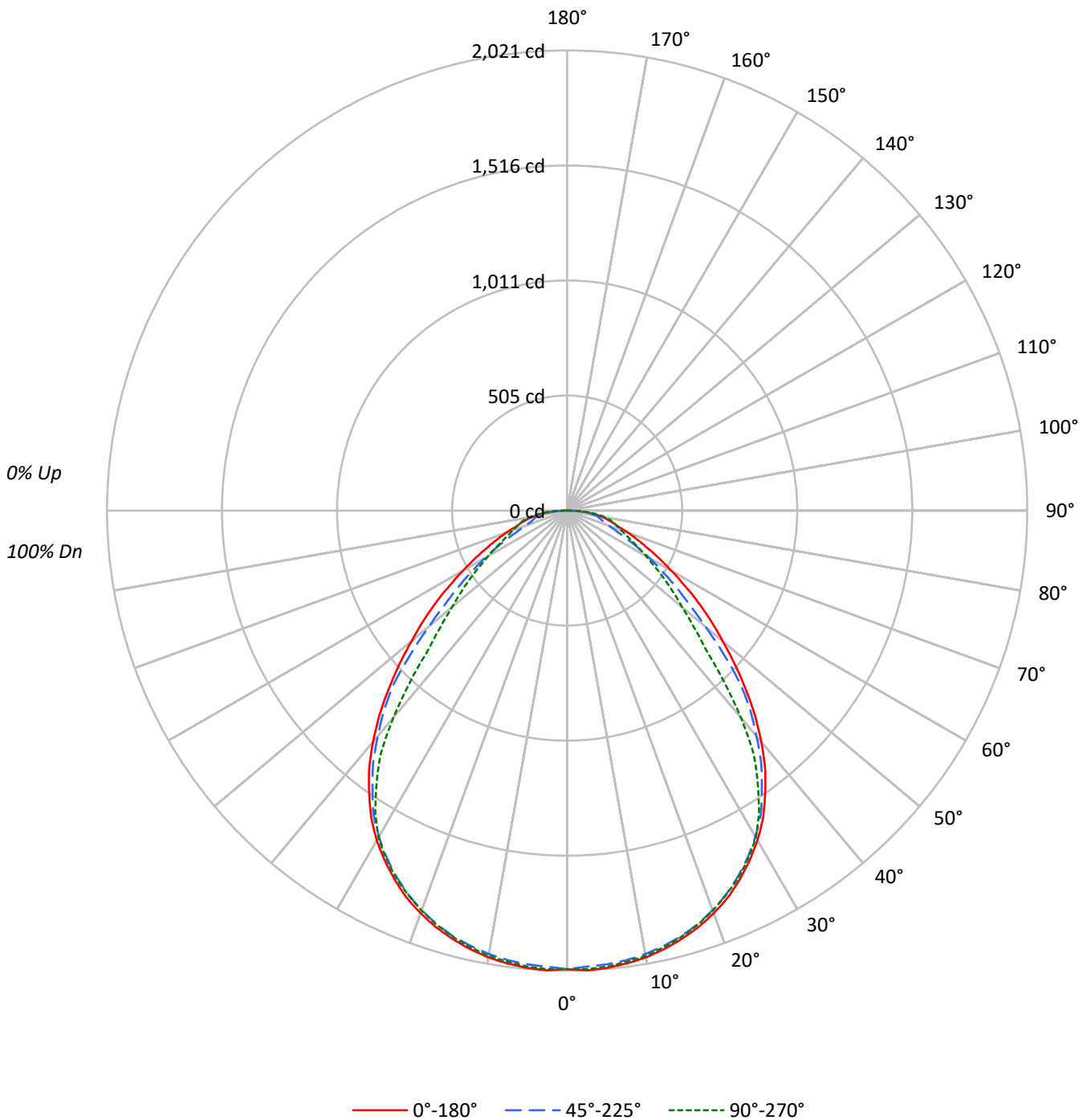
Input Watts (W): 36.549
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5420	5420	5420
5°	5447	5405	5430
10°	5445	5403	5426
15°	5426	5392	5400
20°	5390	5349	5355
25°	5318	5269	5284
30°	5196	5139	5152
35°	4982	4898	4794
40°	4658	4543	4169
45°	4217	4096	3270
50°	3730	3314	2756
55°	3301	2724	2431
60°	2849	2254	2155
65°	2478	1793	1982
70°	2240	1539	1982
75°	2151	1607	2215
80°	2396	2047	2586
85°	2529	2183	3100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.1	4.3
10°-20°	547.5	12.4
20°-30°	819.4	18.6
30°-40°	927.6	21.0
40°-50°	790.1	17.9
50°-60°	535.0	12.1
60°-70°	319.4	7.2
70°-80°	199.5	4.5
80°-90°	84.4	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°	1558.0	35.3
0°-40°	2485.6	56.3
0°-60°	3810.7	86.3
0°-90°	4414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4414.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2014	2014	2014	2014	2014	
5°	2016	2011	2001	2013	2010	192
15°	1948	1940	1935	1948	1938	549
25°	1791	1786	1775	1783	1780	824
35°	1517	1507	1491	1476	1459	945
45°	1108	1111	1076	918	859	855
55°	704	665	581	518	518	629
65°	389	325	282	301	311	392
75°	207	185	155	203	213	223
85°	82	76	71	89	100	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2014.2	2014.2	2014.2	2014.2	2014.2
2.5°	2021.4	2016.3	2005.0	2018.3	2016.3
5°	2016.3	2011.2	2000.9	2013.2	2010.2
7.5°	2006.1	2000.9	1991.7	2004.0	1998.9
10°	1992.7	1986.6	1977.4	1990.7	1985.6
12.5°	1972.3	1966.1	1957.9	1971.2	1964.1
15°	1947.7	1940.5	1935.4	1947.7	1938.5
17.5°	1918.0	1911.8	1904.7	1917.0	1906.7
20°	1882.1	1877.0	1867.8	1875.0	1869.9
22.5°	1841.2	1834.0	1824.8	1833.0	1825.8
25°	1791.0	1785.9	1774.6	1782.8	1779.7
27.5°	1733.7	1730.6	1717.3	1727.5	1722.4
30°	1672.2	1664.0	1653.8	1656.9	1657.9
32.5°	1601.6	1591.3	1583.1	1576.0	1568.8
35°	1516.6	1507.4	1491.0	1475.6	1459.2
37.5°	1428.5	1416.2	1399.8	1366.0	1345.6
40°	1326.1	1320.0	1293.3	1246.2	1186.8
42.5°	1221.7	1215.5	1192.0	1086.5	1022.0
45°	1108.0	1111.1	1076.2	917.5	859.2
47.5°	999.4	1007.6	931.9	783.4	752.7
50°	890.9	900.1	791.6	676.9	658.4
52.5°	795.7	788.5	674.8	593.9	585.7
55°	703.5	664.6	580.6	518.2	518.2
57.5°	609.3	554.0	493.6	453.6	453.6
60°	529.4	460.8	418.8	392.2	400.4
62.5°	455.7	383.0	347.1	342.0	352.3
65°	389.1	324.6	281.6	301.1	311.3
67.5°	334.9	277.5	231.4	272.4	278.5
70°	284.7	241.7	195.6	250.9	251.9
72.5°	238.6	213.0	167.9	227.3	231.4
75°	206.9	185.3	154.6	202.8	213.0
77.5°	181.3	158.7	142.3	175.1	194.6
80°	154.6	130.1	132.1	147.5	166.9
82.5°	118.8	100.4	104.5	120.8	136.2
85°	81.9	75.8	70.7	89.1	100.4
87.5°	44.0	41.0	35.8	50.2	51.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)