

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: P213540

Luminaire Tested: **14GR-LD5-40-A125-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-A125-UNV-L950-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4108.6 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

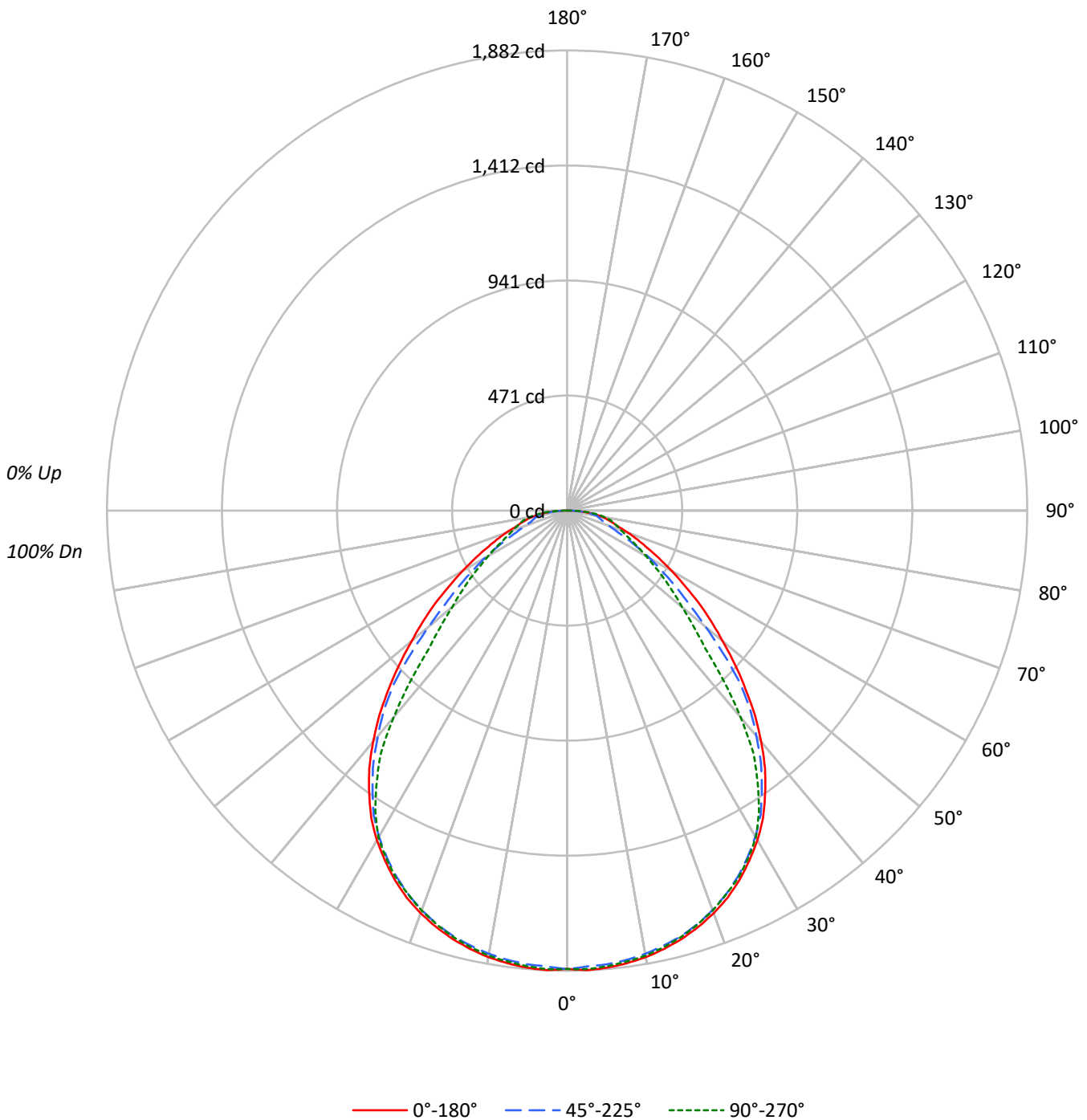
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6318	6318	6318
5°	6348	6300	6329
10°	6347	6298	6324
15°	6325	6284	6294
20°	6282	6234	6241
25°	6198	6141	6159
30°	6056	5990	6004
35°	5807	5709	5587
40°	5429	5295	4859
45°	4914	4774	3811
50°	4347	3862	3213
55°	3847	3175	2833
60°	3321	2627	2512
65°	2888	2090	2310
70°	2611	1794	2310
75°	2507	1875	2582
80°	2794	2385	3014
85°	2950	2544	3615



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.8	4.3
10°-20°	509.7	12.4
20°-30°	762.8	18.6
30°-40°	863.4	21.0
40°-50°	735.4	17.9
50°-60°	498.0	12.1
60°-70°	297.3	7.2
70°-80°	185.7	4.5
80°-90°	78.5	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°	1450.3	35.3
0°-40°	2313.7	56.3
0°-60°	3547.1	86.3
0°-90°	4108.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4108.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1875	1875	1875	1875	1875	
5°	1877	1872	1862	1874	1871	178
15°	1813	1806	1802	1813	1804	511
25°	1667	1662	1652	1660	1657	767
35°	1412	1403	1388	1374	1358	880
45°	1031	1034	1002	854	800	795
55°	655	619	540	482	482	586
65°	362	302	262	280	290	365
75°	193	172	144	189	198	208
85°	76	70	66	83	94	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1874.9	1874.9	1874.9	1874.9	1874.9
2.5°	1881.6	1876.8	1866.3	1878.7	1876.8
5°	1876.8	1872.1	1862.5	1874.0	1871.1
7.5°	1867.3	1862.5	1853.9	1865.4	1860.6
10°	1854.9	1849.2	1840.6	1852.9	1848.2
12.5°	1835.8	1830.1	1822.5	1834.8	1828.2
15°	1813.0	1806.3	1801.5	1813.0	1804.3
17.5°	1785.3	1779.6	1773.0	1784.3	1774.9
20°	1751.9	1747.2	1738.6	1745.3	1740.5
22.5°	1713.8	1707.2	1698.6	1706.2	1699.5
25°	1667.1	1662.4	1651.8	1659.5	1656.7
27.5°	1613.7	1610.9	1598.5	1608.1	1603.2
30°	1556.6	1548.9	1539.4	1542.3	1543.2
32.5°	1490.8	1481.2	1473.7	1466.9	1460.3
35°	1411.7	1403.0	1387.8	1373.6	1358.3
37.5°	1329.7	1318.2	1303.0	1271.5	1252.5
40°	1234.3	1228.7	1203.8	1160.0	1104.7
42.5°	1137.1	1131.4	1109.5	1011.3	951.3
45°	1031.3	1034.2	1001.8	854.0	799.7
47.5°	930.3	937.9	867.4	729.2	700.6
50°	829.3	837.8	736.8	630.1	612.9
52.5°	740.6	733.9	628.2	552.8	545.2
55°	654.8	618.6	540.4	482.3	482.3
57.5°	567.1	515.7	459.5	422.2	422.2
60°	492.8	429.0	389.8	365.1	372.7
62.5°	424.2	356.4	323.1	318.3	327.9
65°	362.2	302.1	262.1	280.3	289.7
67.5°	311.7	258.3	215.4	253.5	259.3
70°	265.0	225.0	182.1	233.5	234.5
72.5°	222.1	198.3	156.3	211.6	215.4
75°	192.6	172.5	144.0	188.7	198.3
77.5°	168.7	147.8	132.5	163.0	181.1
80°	144.0	121.0	122.9	137.2	155.3
82.5°	110.6	93.5	97.2	112.5	126.8
85°	76.3	70.5	65.8	82.9	93.5
87.5°	41.0	38.1	33.4	46.7	47.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)