

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: P234072

Luminaire Tested: **14GR-LD5-50-A125-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234072
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-LD5-50-A125-UNV-L950-CD1-U
Description: METALUX 1X4 GRLED TROFFER
WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5014.0 lumens
Efficiency: N/A
Efficacy: 111.2 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

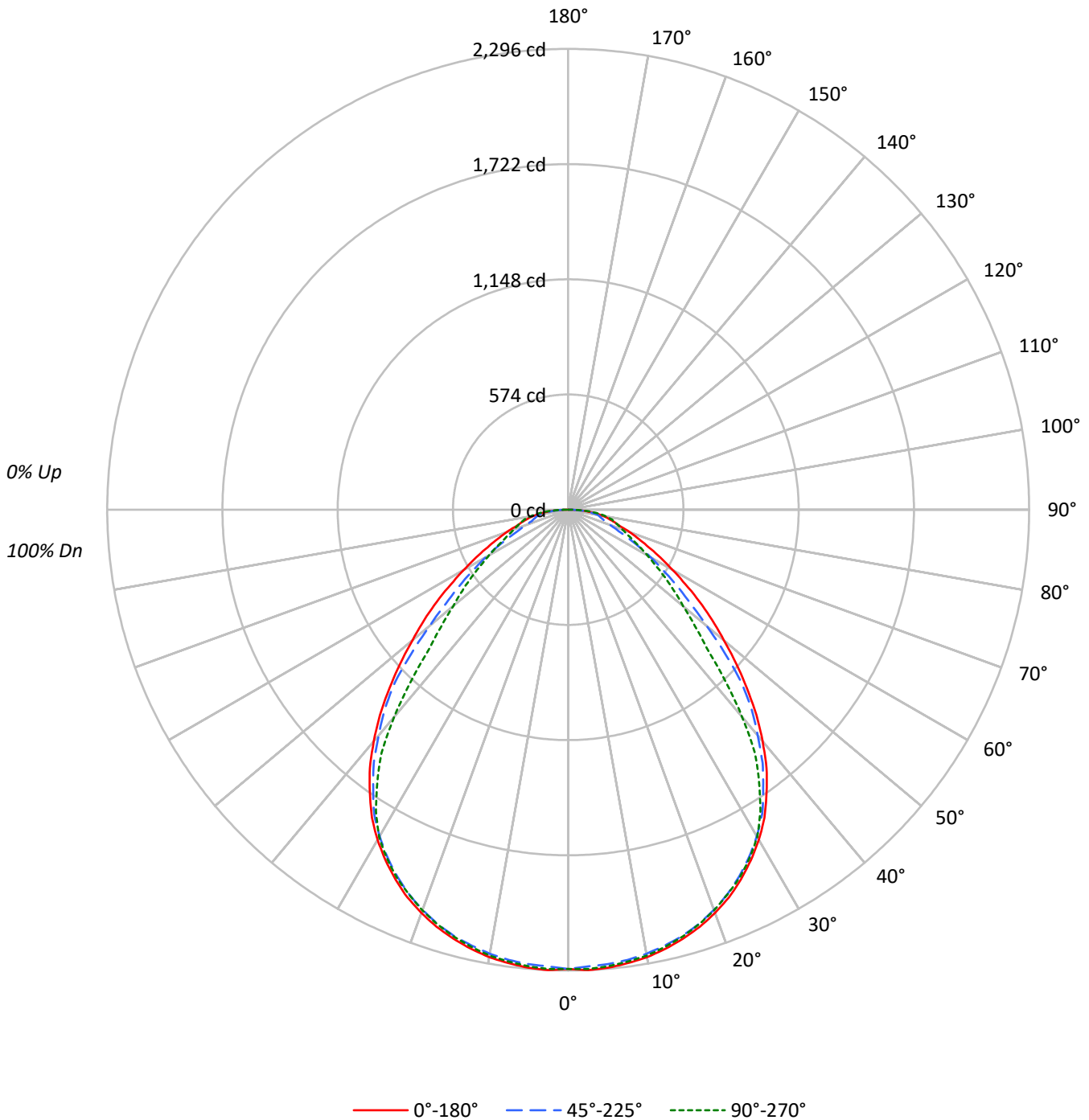
Input Watts (W): 45.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P234072

CATALOG NUMBER: 14GR-LD5-50-A125-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P234072

CATALOG NUMBER: 14GR-LD5-50-A125-UNV-L950-CD1-U

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°	7710	7710	7710
5°	7747	7688	7723
10°	7745	7685	7717
15°	7718	7669	7681
20°	7666	7608	7616
25°	7564	7495	7517
30°	7391	7309	7327
35°	7086	6967	6819
40°	6626	6462	5930
45°	5998	5826	4651
50°	5305	4714	3921
55°	4695	3875	3458
60°	4053	3206	3065
65°	3524	2551	2819
70°	3186	2188	2820
75°	3059	2286	3151
80°	3407	2913	3679
85°	3599	3105	4407



TEST NUMBER: P234072

CATALOG NUMBER: 14GR-LD5-50-A125-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.0	4.3
10°-20°	622.0	12.4
20°-30°	930.8	18.6
30°-40°	1053.7	21.0
40°-50°	897.5	17.9
50°-60°	607.7	12.1
60°-70°	362.8	7.2
70°-80°	226.7	4.5
80°-90°	95.8	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°	1769.8	35.3
0°-40°	2823.5	56.3
0°-60°	4328.7	86.3
0°-90°	5014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5014.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2288	2288	2288	2288	2288	
5°	2290	2285	2273	2287	2283	218
15°	2212	2204	2198	2212	2202	624
25°	2034	2029	2016	2025	2022	936
35°	1723	1712	1694	1676	1658	1074
45°	1259	1262	1223	1042	976	971
55°	799	755	660	589	589	715
65°	442	369	320	342	354	446
75°	235	211	176	230	242	254
85°	93	86	80	101	114	100
90°	0	0	0	0	0	



TEST NUMBER: P234072

CATALOG NUMBER: 14GR-LD5-50-A125-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2288.0	2288.0	2288.0	2288.0	2288.0
2.5°	2296.2	2290.4	2277.5	2292.7	2290.4
5°	2290.4	2284.6	2272.9	2286.9	2283.4
7.5°	2278.7	2272.9	2262.4	2276.5	2270.6
10°	2263.6	2256.6	2246.2	2261.3	2255.4
12.5°	2240.3	2233.4	2224.0	2239.2	2231.0
15°	2212.5	2204.3	2198.5	2212.5	2201.9
17.5°	2178.7	2171.7	2163.6	2177.5	2165.9
20°	2138.0	2132.2	2121.7	2129.9	2124.0
22.5°	2091.5	2083.4	2072.9	2082.2	2074.0
25°	2034.5	2028.7	2015.8	2025.2	2021.7
27.5°	1969.3	1965.9	1950.7	1962.3	1956.5
30°	1899.5	1890.3	1878.6	1882.1	1883.2
32.5°	1819.3	1807.6	1798.3	1790.2	1782.1
35°	1722.7	1712.3	1693.6	1676.2	1657.6
37.5°	1622.7	1608.7	1590.1	1551.7	1528.4
40°	1506.3	1499.4	1469.1	1415.6	1348.2
42.5°	1387.8	1380.7	1354.0	1234.1	1160.9
45°	1258.6	1262.1	1222.6	1042.2	976.0
47.5°	1135.3	1144.6	1058.5	889.9	854.9
50°	1012.0	1022.5	899.2	768.9	747.9
52.5°	903.8	895.7	766.6	674.7	665.4
55°	799.2	754.9	659.6	588.6	588.6
57.5°	692.1	629.3	560.7	515.3	515.3
60°	601.4	523.4	475.7	445.5	454.8
62.5°	517.6	435.1	394.3	388.5	400.1
65°	442.0	368.7	319.9	342.0	353.6
67.5°	380.4	315.2	262.9	309.4	316.4
70°	323.4	274.5	222.1	285.0	286.2
72.5°	271.0	242.0	190.7	258.3	262.9
75°	235.0	210.6	175.6	230.3	242.0
77.5°	205.9	180.3	161.7	198.9	221.0
80°	175.6	147.7	150.1	167.5	189.6
82.5°	135.0	114.0	118.7	137.2	154.7
85°	93.1	86.1	80.3	101.2	114.0
87.5°	50.1	46.5	40.7	57.0	58.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)