

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: P234067

Luminaire Tested: **14GR-LD5-60-A125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234067
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-LD5-60-A125-UNV-L940-CD1-U
Description: METALUX 1X4 GRLED TROFFER
WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5241.7 lumens
Efficiency: N/A
Efficacy: 87.5 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

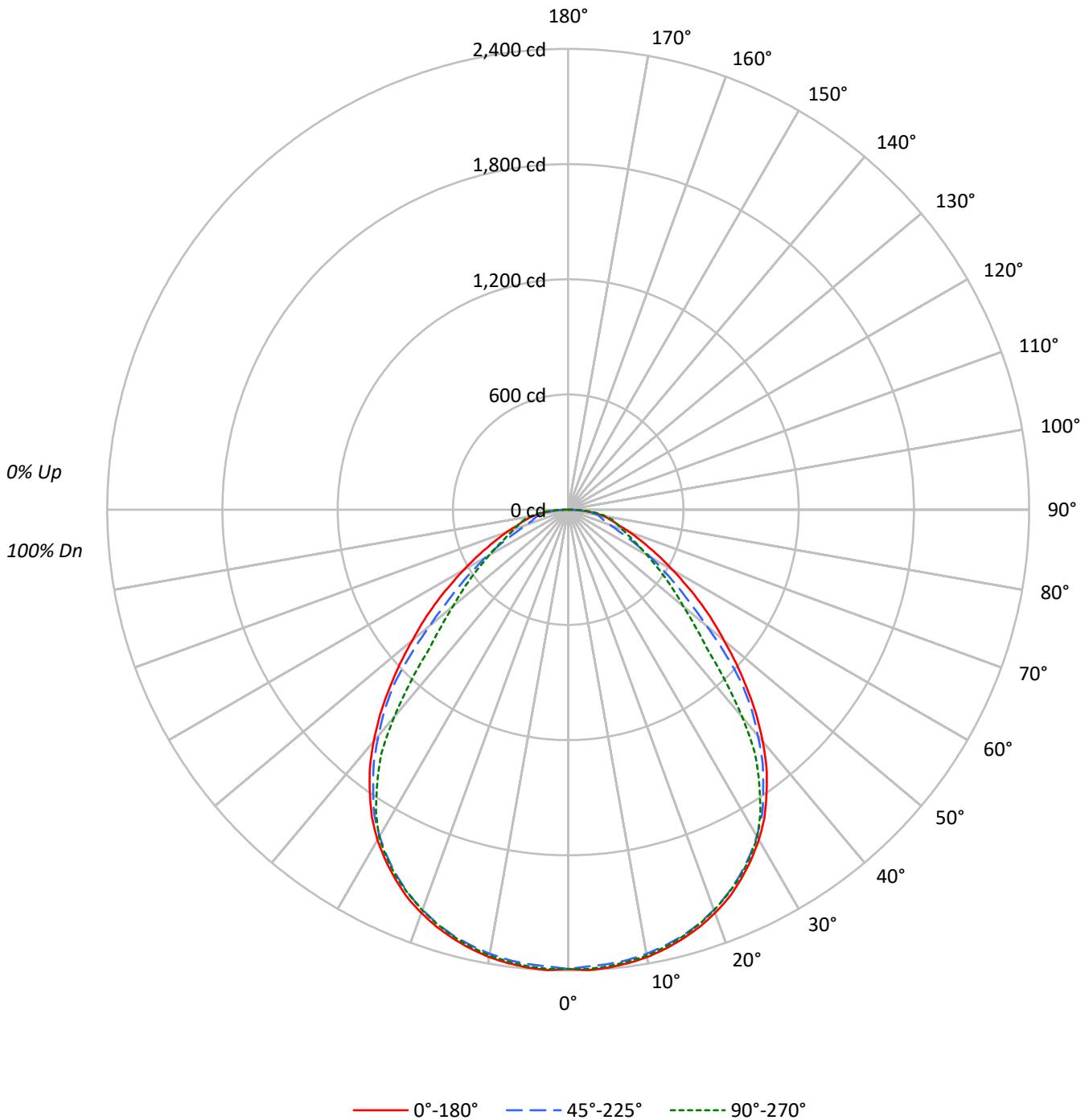
Input Watts (W): 59.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	51	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°	8060	8060	8060
5°	8099	8037	8074
10°	8097	8034	8068
15°	8068	8018	8030
20°	8015	7953	7962
25°	7908	7835	7857
30°	7726	7641	7660
35°	7408	7283	7128
40°	6927	6756	6199
45°	6270	6090	4862
50°	5546	4928	4099
55°	4908	4051	3615
60°	4237	3351	3204
65°	3684	2667	2948
70°	3331	2289	2947
75°	3197	2390	3293
80°	3563	3045	3846
85°	3762	3244	4608



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.9	4.3
10°-20°	650.2	12.4
20°-30°	973.1	18.6
30°-40°	1101.5	21.0
40°-50°	938.3	17.9
50°-60°	635.3	12.1
60°-70°	379.3	7.2
70°-80°	237.0	4.5
80°-90°	100.2	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°	1850.2	35.3
0°-40°	2951.7	56.3
0°-60°	4525.3	86.3
0°-90°	5241.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5241.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2392	2392	2392	2392	2392	
5°	2394	2388	2376	2391	2387	228
15°	2313	2304	2298	2313	2302	652
25°	2127	2121	2107	2117	2113	978
35°	1801	1790	1771	1752	1733	1123
45°	1316	1319	1278	1090	1020	1015
55°	835	789	690	615	615	747
65°	462	386	334	358	370	466
75°	246	220	184	241	253	265
85°	97	90	84	106	119	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2391.9	2391.9	2391.9	2391.9	2391.9
2.5°	2400.4	2394.4	2381.0	2396.8	2394.4
5°	2394.4	2388.3	2376.2	2390.7	2387.1
7.5°	2382.2	2376.2	2365.2	2379.8	2373.7
10°	2366.4	2359.2	2348.1	2364.0	2357.9
12.5°	2342.1	2334.8	2325.1	2340.9	2332.4
15°	2312.9	2304.4	2298.4	2312.9	2302.0
17.5°	2277.6	2270.3	2261.8	2276.4	2264.3
20°	2235.1	2229.0	2218.0	2226.5	2220.5
22.5°	2186.5	2178.0	2166.9	2176.7	2168.2
25°	2126.9	2120.8	2107.4	2117.1	2113.4
27.5°	2058.8	2055.1	2039.3	2051.4	2045.3
30°	1985.8	1976.1	1963.9	1967.6	1968.8
32.5°	1901.9	1889.8	1880.0	1871.4	1862.9
35°	1800.9	1790.0	1770.6	1752.3	1732.9
37.5°	1696.4	1681.8	1662.3	1622.2	1597.9
40°	1574.7	1567.4	1535.9	1479.9	1409.4
42.5°	1450.7	1443.4	1415.5	1290.3	1213.6
45°	1315.7	1319.4	1278.0	1089.5	1020.2
47.5°	1186.9	1196.6	1106.6	930.3	893.8
50°	1058.0	1068.9	940.0	803.8	781.9
52.5°	944.9	936.4	801.3	705.3	695.6
55°	835.4	789.2	689.5	615.3	615.3
57.5°	723.5	657.9	586.1	538.7	538.7
60°	628.7	547.2	497.3	465.8	475.5
62.5°	541.1	454.8	412.2	406.2	418.3
65°	462.1	385.5	334.5	357.5	369.7
67.5°	397.7	329.6	274.9	323.4	330.8
70°	338.1	287.0	232.3	297.9	299.1
72.5°	283.4	252.9	199.4	270.0	274.9
75°	245.6	220.1	183.6	240.8	252.9
77.5°	215.3	188.5	169.0	207.9	231.1
80°	183.6	154.5	156.9	175.1	198.2
82.5°	141.0	119.2	124.0	143.5	161.8
85°	97.3	90.0	83.9	105.8	119.2
87.5°	52.3	48.7	42.6	59.6	60.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)