

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: P234066

Luminaire Tested: **14GR-LD5-60-A125-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234066
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-L935-CD1-U
Description: METALUX 1X4 GRLED TROFFER
WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5180.8 lumens
Efficiency: N/A
Efficacy: 86.5 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

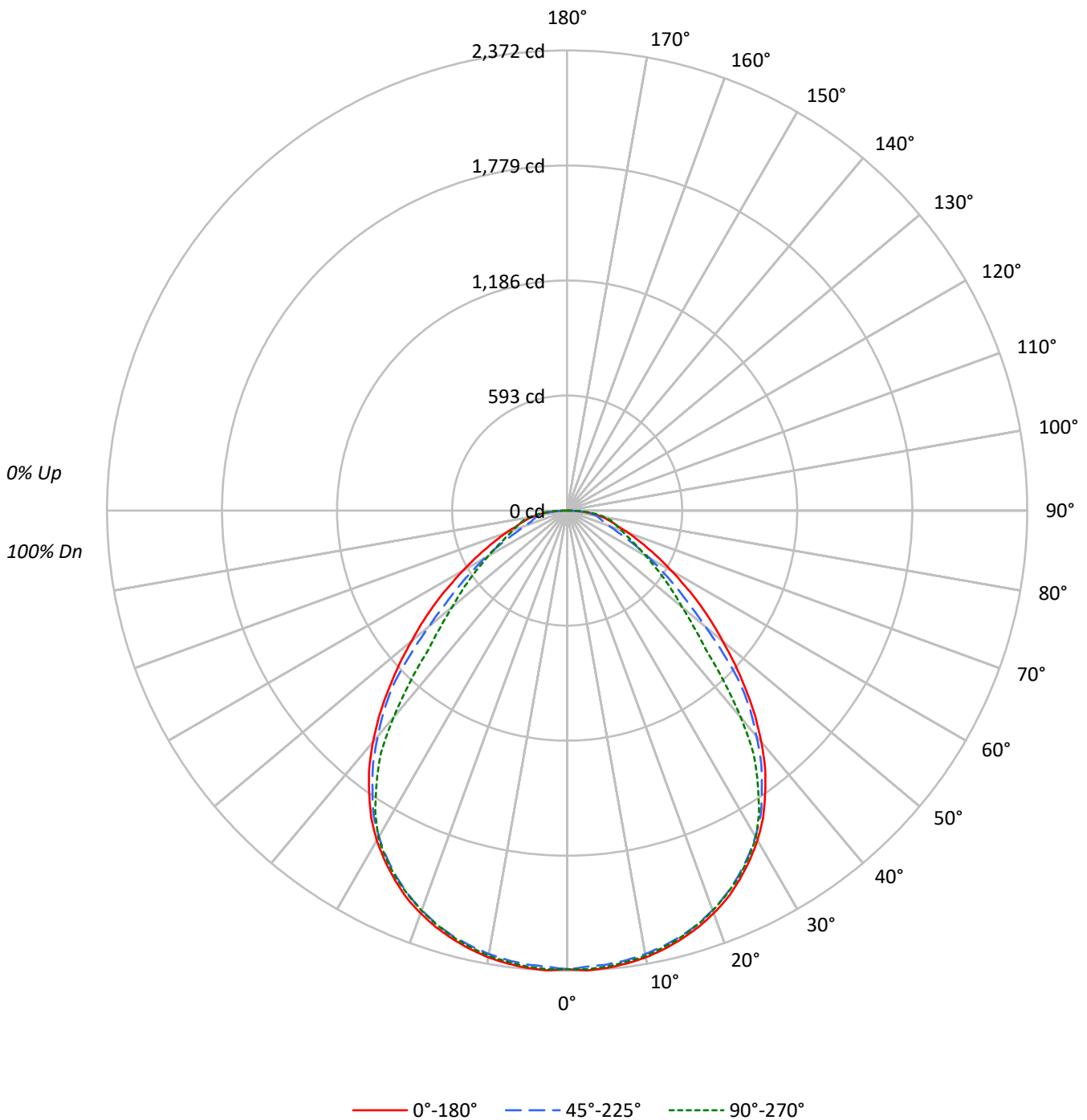
Input Watts (W): 59.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	7966	7966	7966
5°	8005	7944	7980
10°	8003	7941	7974
15°	7975	7924	7937
20°	7921	7861	7870
25°	7815	7744	7766
30°	7637	7553	7571
35°	7322	7199	7046
40°	6846	6677	6127
45°	6197	6020	4805
50°	5482	4870	4051
55°	4851	4003	3573
60°	4188	3313	3167
65°	3641	2636	2913
70°	3292	2262	2912
75°	3161	2363	3255
80°	3522	3008	3801
85°	3715	3209	4554



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.2	4.3
10°-20°	642.7	12.4
20°-30°	961.8	18.6
30°-40°	1088.7	21.0
40°-50°	927.4	17.9
50°-60°	627.9	12.1
60°-70°	374.9	7.2
70°-80°	234.2	4.5
80°-90°	99.0	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°	1828.7	35.3
0°-40°	2917.4	56.3
0°-60°	4472.7	86.3
0°-90°	5180.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5180.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2364	2364	2364	2364	2364	
5°	2367	2360	2348	2363	2359	225
15°	2286	2278	2272	2286	2275	645
25°	2102	2096	2083	2092	2089	967
35°	1780	1769	1750	1732	1713	1109
45°	1300	1304	1263	1077	1008	1003
55°	826	780	681	608	608	738
65°	457	381	331	353	365	460
75°	243	218	182	238	250	262
85°	96	89	83	105	118	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2364.1	2364.1	2364.1	2364.1	2364.1
2.5°	2372.5	2366.6	2353.3	2369.0	2366.6
5°	2366.6	2360.5	2348.5	2362.9	2359.3
7.5°	2354.5	2348.5	2337.7	2352.1	2346.1
10°	2338.9	2331.7	2320.8	2336.5	2330.4
12.5°	2314.9	2307.7	2298.1	2313.7	2305.3
15°	2286.0	2277.6	2271.6	2286.0	2275.2
17.5°	2251.1	2243.9	2235.5	2250.0	2238.0
20°	2209.1	2203.1	2192.2	2200.6	2194.7
22.5°	2161.0	2152.6	2141.7	2151.4	2143.0
25°	2102.1	2096.1	2082.9	2092.5	2088.9
27.5°	2034.8	2031.2	2015.6	2027.6	2021.6
30°	1962.7	1953.1	1941.1	1944.7	1945.9
32.5°	1879.8	1867.8	1858.1	1849.7	1841.3
35°	1780.0	1769.2	1750.0	1732.0	1712.8
37.5°	1676.6	1662.3	1643.0	1603.4	1579.3
40°	1556.4	1549.2	1518.0	1462.7	1393.0
42.5°	1433.9	1426.6	1399.0	1275.3	1199.5
45°	1300.4	1304.1	1263.2	1076.9	1008.4
47.5°	1173.1	1182.7	1093.7	919.4	883.4
50°	1045.7	1056.5	929.0	794.5	772.8
52.5°	933.9	925.5	792.0	697.1	687.5
55°	825.7	780.0	681.4	608.2	608.2
57.5°	715.1	650.2	579.3	532.4	532.4
60°	621.4	540.9	491.6	460.4	470.0
62.5°	534.8	449.5	407.4	401.5	413.4
65°	456.7	381.0	330.6	353.3	365.4
67.5°	393.0	325.7	271.7	319.7	326.9
70°	334.1	283.6	229.6	294.4	295.6
72.5°	280.1	250.0	197.1	266.8	271.7
75°	242.8	217.5	181.5	238.0	250.0
77.5°	212.8	186.3	167.0	205.5	228.4
80°	181.5	152.7	155.0	173.1	195.9
82.5°	139.4	117.8	122.6	141.9	159.9
85°	96.1	88.9	83.0	104.6	117.8
87.5°	51.7	48.1	42.1	58.9	60.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)