

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: P476339

Luminaire Tested: **14GR-LD5-60-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476339
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-60-A125-UNV-L840-CD1-U
Description: GR 1'X4' LED TROFFER w/ A125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6288.0 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

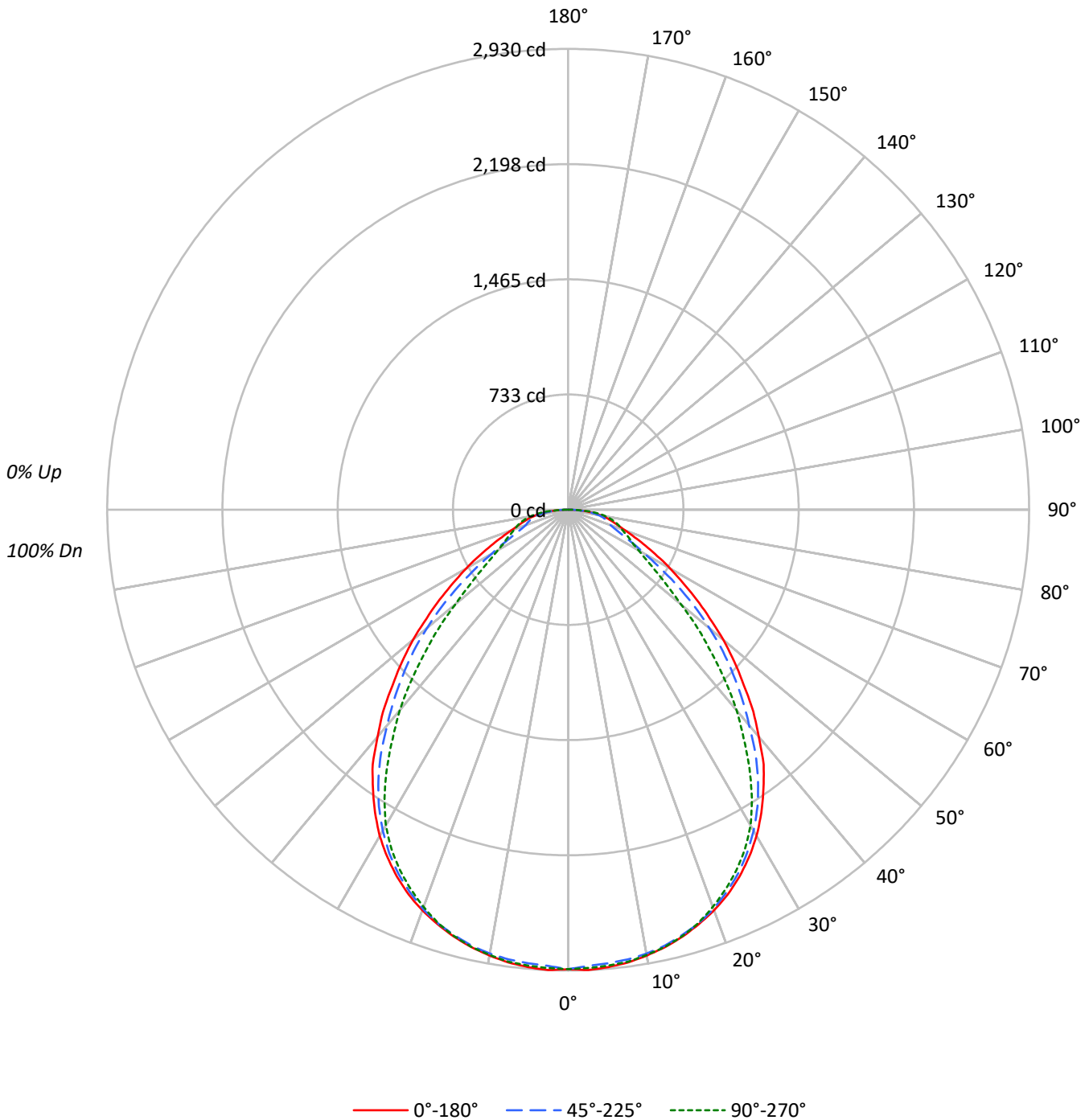
Input Watts (W): 52.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	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	48	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7861	7861	7861
5°	7887	7820	7859
10°	7866	7830	7854
15°	7828	7800	7816
20°	7762	7733	7696
25°	7645	7584	7511
30°	7442	7324	7201
35°	7109	6912	6600
40°	6617	6283	5852
45°	6011	5650	4905
50°	5383	4906	3909
55°	4676	4004	3174
60°	4034	3028	2768
65°	3452	2419	2717
70°	3046	2253	2851
75°	3039	2583	3251
80°	3284	3011	3736
85°	3520	3202	4286



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.6	4.4
10°-20°	791.4	12.6
20°-30°	1174.3	18.7
30°-40°	1304.0	20.7
40°-50°	1124.6	17.9
50°-60°	762.7	12.1
60°-70°	441.0	7.0
70°-80°	287.9	4.6
80°-90°	125.5	2.0
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°	2242.3	35.7
0°-40°	3546.3	56.4
0°-60°	5433.6	86.4
0°-90°	6288.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6288.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2921	2921	2921	2921	2921	
5°	2920	2908	2895	2915	2909	277
15°	2810	2804	2800	2819	2806	792
25°	2575	2572	2554	2547	2530	1184
35°	2164	2144	2104	2046	2009	1349
45°	1580	1555	1485	1362	1289	1221
55°	997	976	853	726	677	896
65°	542	481	380	389	427	545
75°	292	264	248	278	313	311
85°	114	111	104	145	139	121
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2921.1	2921.1	2921.1	2921.1	2921.1
2.5°	2929.8	2919.6	2903.5	2921.1	2916.7
5°	2919.6	2907.9	2894.8	2915.2	2909.4
7.5°	2903.5	2891.8	2884.5	2902.1	2899.2
10°	2878.7	2869.9	2865.5	2887.5	2874.3
12.5°	2848.0	2840.7	2839.2	2856.8	2846.5
15°	2810.0	2804.2	2799.8	2818.8	2805.6
17.5°	2763.3	2760.3	2757.4	2766.2	2754.5
20°	2710.6	2707.7	2700.4	2701.9	2687.3
22.5°	2649.3	2646.4	2631.7	2628.8	2612.7
25°	2574.7	2571.8	2554.3	2547.0	2529.5
27.5°	2490.0	2491.5	2462.2	2449.1	2433.0
30°	2395.0	2389.2	2357.0	2335.1	2317.6
32.5°	2284.0	2276.7	2238.7	2203.6	2172.9
35°	2164.1	2143.7	2104.2	2045.8	2009.2
37.5°	2041.4	2013.6	1955.2	1880.6	1832.4
40°	1883.6	1854.3	1788.6	1703.8	1665.8
42.5°	1741.8	1711.1	1638.1	1538.7	1478.8
45°	1579.6	1554.8	1484.6	1361.9	1288.8
47.5°	1432.0	1405.7	1334.1	1189.5	1117.9
50°	1285.9	1256.7	1171.9	1015.6	933.7
52.5°	1133.9	1117.9	1014.1	857.8	792.0
55°	996.6	976.1	853.4	726.2	676.6
57.5°	865.1	831.5	698.5	603.5	584.5
60°	749.6	702.9	562.6	510.0	514.4
62.5°	640.0	584.5	461.8	436.9	461.8
65°	542.1	480.8	379.9	388.7	426.7
67.5°	455.9	397.5	322.9	358.0	390.2
70°	387.2	339.0	286.4	325.9	362.4
72.5°	331.7	299.6	268.9	299.6	339.0
75°	292.3	264.5	248.4	277.6	312.7
77.5°	255.7	233.8	226.5	249.9	279.1
80°	211.9	201.7	194.3	225.0	241.1
82.5°	163.7	159.3	153.4	191.4	198.7
85°	114.0	111.1	103.7	144.7	138.8
87.5°	59.9	57.0	52.6	76.0	68.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)