

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: P476303

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

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476303
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-60-A-UNV-L840-CD1-U
Description: GR 1'X4' LED TROFFER w/ A LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6074.9 lumens
Efficiency: N/A
Efficacy: 116.6 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

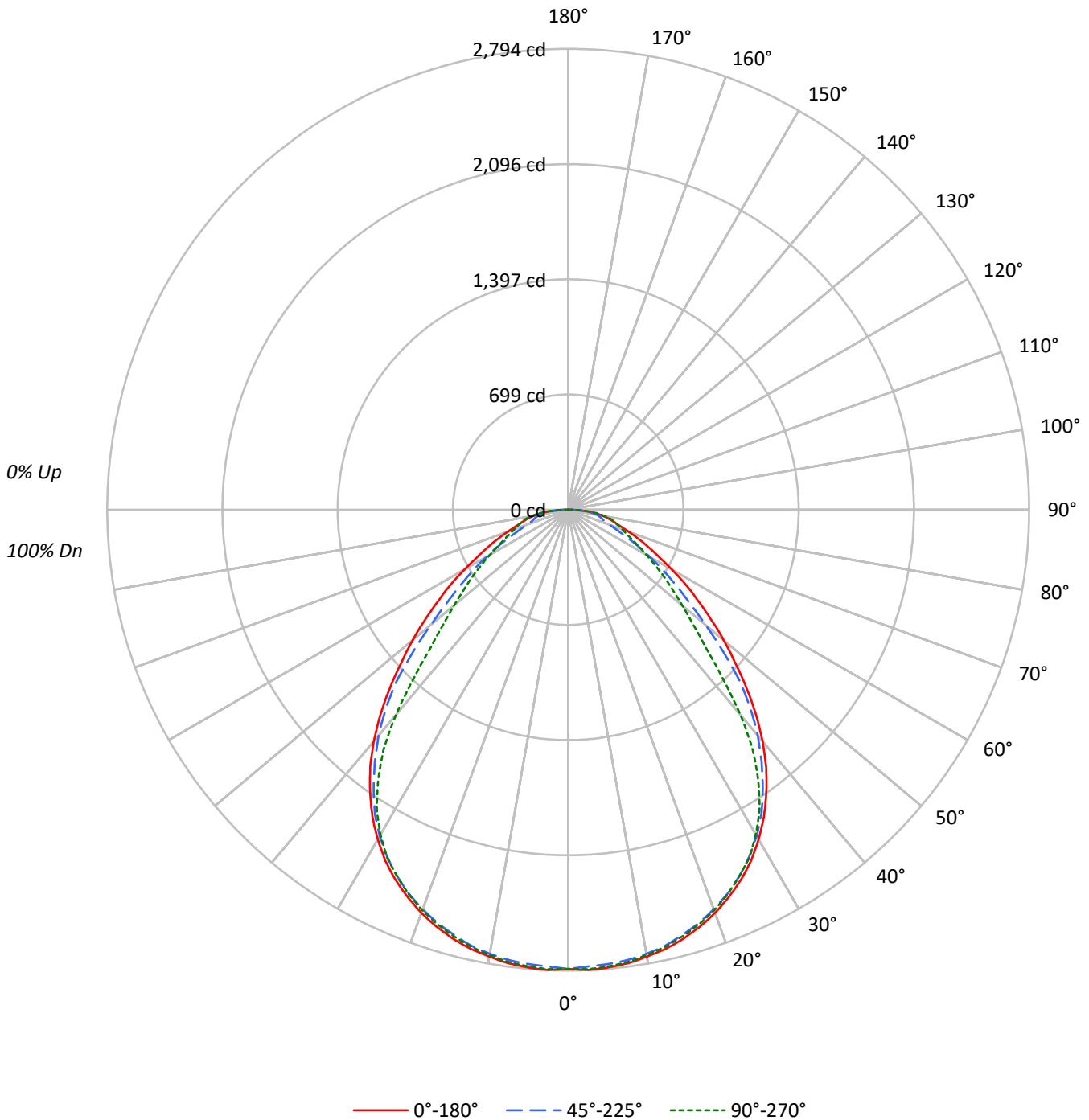
Input Watts (W): 52.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	74	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	47	59	52	47		58	51	47		56	51	46	44
7	69	57	48	43	67	56	48	43	54	47	42		53	47	42		52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38		49	43	38		48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	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	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9381	9381	9381
5°	9426	9354	9402
10°	9414	9356	9380
15°	9396	9313	9342
20°	9329	9244	9269
25°	9206	9117	9123
30°	8981	8887	8850
35°	8613	8457	8264
40°	8062	7857	7150
45°	7282	7006	5588
50°	6458	5688	4726
55°	5636	4667	4169
60°	4887	3841	3681
65°	4286	3082	3398
70°	3823	2615	3420
75°	3729	2757	3821
80°	4133	3477	4380
85°	4307	3712	5130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.1	4.3
10°-20°	756.6	12.5
20°-30°	1131.9	18.6
30°-40°	1277.7	21.0
40°-50°	1083.9	17.8
50°-60°	733.4	12.1
60°-70°	437.8	7.2
70°-80°	274.2	4.5
80°-90°	115.3	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°	2152.6	35.4
0°-40°	3430.4	56.5
0°-60°	5247.7	86.4
0°-90°	6074.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6074.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2784	2784	2784	2784	2784	
5°	2787	2778	2766	2785	2780	265
15°	2694	2688	2670	2688	2678	760
25°	2476	2468	2452	2463	2454	1139
35°	2094	2080	2056	2038	2009	1305
45°	1528	1534	1470	1260	1173	1177
55°	959	914	794	711	710	864
65°	538	446	386	412	426	537
75°	286	255	212	279	294	308
85°	111	106	96	124	133	120
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2783.9	2783.9	2783.9	2783.9	2783.9
2.5°	2793.7	2785.1	2772.4	2789.5	2788.1
5°	2786.6	2778.3	2765.5	2785.1	2779.5
7.5°	2773.8	2766.7	2754.3	2772.4	2766.7
10°	2751.3	2745.7	2734.4	2749.8	2741.5
12.5°	2727.3	2723.2	2709.0	2723.2	2714.6
15°	2693.6	2687.9	2669.6	2687.9	2677.9
17.5°	2651.2	2644.1	2628.7	2644.1	2635.5
20°	2601.7	2593.5	2577.8	2593.5	2584.9
22.5°	2542.5	2535.4	2521.5	2535.4	2524.1
25°	2476.2	2467.9	2452.2	2463.4	2453.7
27.5°	2400.0	2388.8	2374.6	2383.2	2377.5
30°	2308.2	2294.3	2284.2	2284.2	2274.5
32.5°	2208.1	2198.3	2181.5	2171.4	2158.6
35°	2093.8	2079.9	2055.9	2037.5	2009.1
37.5°	1971.2	1954.3	1924.7	1877.9	1839.9
40°	1832.8	1811.5	1786.3	1694.5	1625.5
42.5°	1684.7	1680.3	1636.8	1480.1	1384.1
45°	1528.1	1533.7	1470.3	1260.0	1172.6
47.5°	1369.9	1389.7	1274.2	1068.1	1023.0
50°	1231.9	1238.7	1085.0	927.1	901.6
52.5°	1089.4	1077.8	925.6	815.4	797.1
55°	959.4	914.3	794.4	711.2	709.7
57.5°	845.0	761.8	678.6	616.7	623.8
60°	725.1	632.1	569.9	536.1	546.2
62.5°	619.3	530.5	475.4	465.6	482.5
65°	537.6	445.8	386.5	412.0	426.2
67.5°	460.0	382.4	314.6	375.3	380.9
70°	388.0	331.4	265.4	345.7	347.1
72.5°	328.8	293.5	229.8	313.4	317.5
75°	286.4	255.3	211.8	279.3	293.5
77.5°	251.2	218.6	196.1	241.4	265.4
80°	213.0	176.2	179.2	201.7	225.7
82.5°	163.8	136.8	142.5	166.5	183.3
85°	111.4	105.7	96.0	124.1	132.7
87.5°	59.2	56.6	49.5	70.5	66.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)