

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: P476294

Luminaire Tested: **14GR-LD5-60-A-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476294
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-L835-CD1-U
Description: GR 1'X4' LED TROFFER w/ A LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5961.6 lumens
Efficiency: N/A
Efficacy: 114.4 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

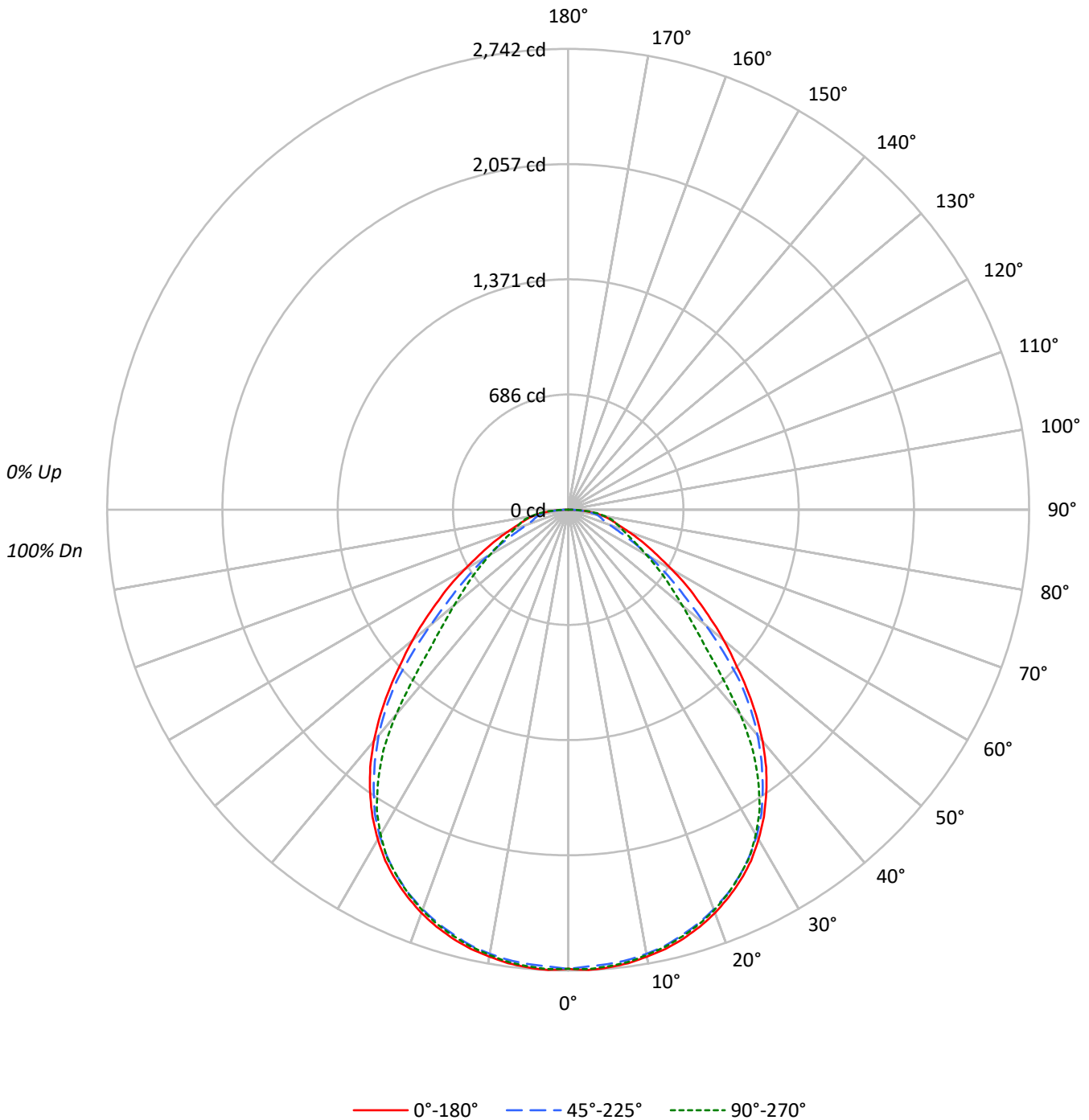
Input Watts (W): 52.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44					44			
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36					36			
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9206	9206	9206
5°	9250	9180	9226
10°	9238	9182	9205
15°	9221	9139	9167
20°	9155	9071	9096
25°	9035	8947	8952
30°	8814	8722	8684
35°	8452	8299	8110
40°	7912	7711	7017
45°	7146	6876	5484
50°	6337	5581	4638
55°	5531	4580	4091
60°	4796	3769	3612
65°	4207	3024	3335
70°	3752	2565	3357
75°	3660	2705	3751
80°	4056	3413	4298
85°	4226	3642	5034



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.2	4.3
10°-20°	742.5	12.5
20°-30°	1110.8	18.6
30°-40°	1253.9	21.0
40°-50°	1063.7	17.8
50°-60°	719.7	12.1
60°-70°	429.6	7.2
70°-80°	269.0	4.5
80°-90°	113.2	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°	2112.5	35.4
0°-40°	3366.4	56.5
0°-60°	5149.8	86.4
0°-90°	5961.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5961.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2732	2732	2732	2732	2732	
5°	2735	2726	2714	2733	2728	260
15°	2643	2638	2620	2638	2628	745
25°	2430	2422	2406	2418	2408	1117
35°	2055	2041	2018	2000	1972	1280
45°	1500	1505	1443	1236	1151	1156
55°	942	897	780	698	696	848
65°	528	438	379	404	418	527
75°	281	251	208	274	288	302
85°	109	104	94	122	130	118
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2732.0	2732.0	2732.0	2732.0	2732.0
2.5°	2741.6	2733.2	2720.7	2737.5	2736.1
5°	2734.6	2726.5	2714.0	2733.2	2727.6
7.5°	2722.1	2715.1	2702.9	2720.7	2715.1
10°	2700.0	2694.5	2683.5	2698.6	2690.4
12.5°	2676.5	2672.4	2658.5	2672.4	2664.0
15°	2643.3	2637.8	2619.8	2637.8	2627.9
17.5°	2601.8	2594.8	2579.7	2594.8	2586.4
20°	2553.2	2545.1	2529.7	2545.1	2536.7
22.5°	2495.1	2488.1	2474.5	2488.1	2477.1
25°	2430.0	2421.9	2406.4	2417.5	2407.9
27.5°	2355.3	2344.2	2330.3	2338.7	2333.2
30°	2265.2	2251.5	2241.6	2241.6	2232.0
32.5°	2166.9	2157.3	2140.8	2130.9	2118.4
35°	2054.7	2041.1	2017.5	1999.5	1971.6
37.5°	1934.4	1917.8	1888.8	1842.8	1805.6
40°	1798.7	1777.7	1753.0	1662.9	1595.2
42.5°	1653.3	1649.0	1606.2	1452.5	1358.3
45°	1499.6	1505.1	1442.9	1236.5	1150.8
47.5°	1344.3	1363.8	1250.5	1048.2	1004.0
50°	1208.9	1215.6	1064.7	909.8	884.8
52.5°	1069.1	1057.7	908.3	800.2	782.2
55°	941.5	897.3	779.6	697.9	696.4
57.5°	829.3	747.6	665.9	605.2	612.1
60°	711.6	620.3	559.2	526.1	536.0
62.5°	607.8	520.6	466.5	456.9	473.5
65°	527.6	437.5	379.3	404.3	418.3
67.5°	451.4	375.3	308.7	368.3	373.8
70°	380.8	325.3	260.4	339.2	340.7
72.5°	322.6	288.1	225.6	307.5	311.6
75°	281.1	250.6	207.8	274.1	288.1
77.5°	246.5	214.5	192.4	236.9	260.4
80°	209.0	172.9	175.9	197.9	221.5
82.5°	160.7	134.3	139.8	163.4	179.9
85°	109.3	103.8	94.2	121.8	130.2
87.5°	58.1	55.5	48.5	69.2	65.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)