

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: P476312

Luminaire Tested: **14GR-LD5-60-A-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476312
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-L850-CD1-U
Description: GR 1'X4' LED TROFFER w/ A LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6080.9 lumens
Efficiency: N/A
Efficacy: 116.7 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

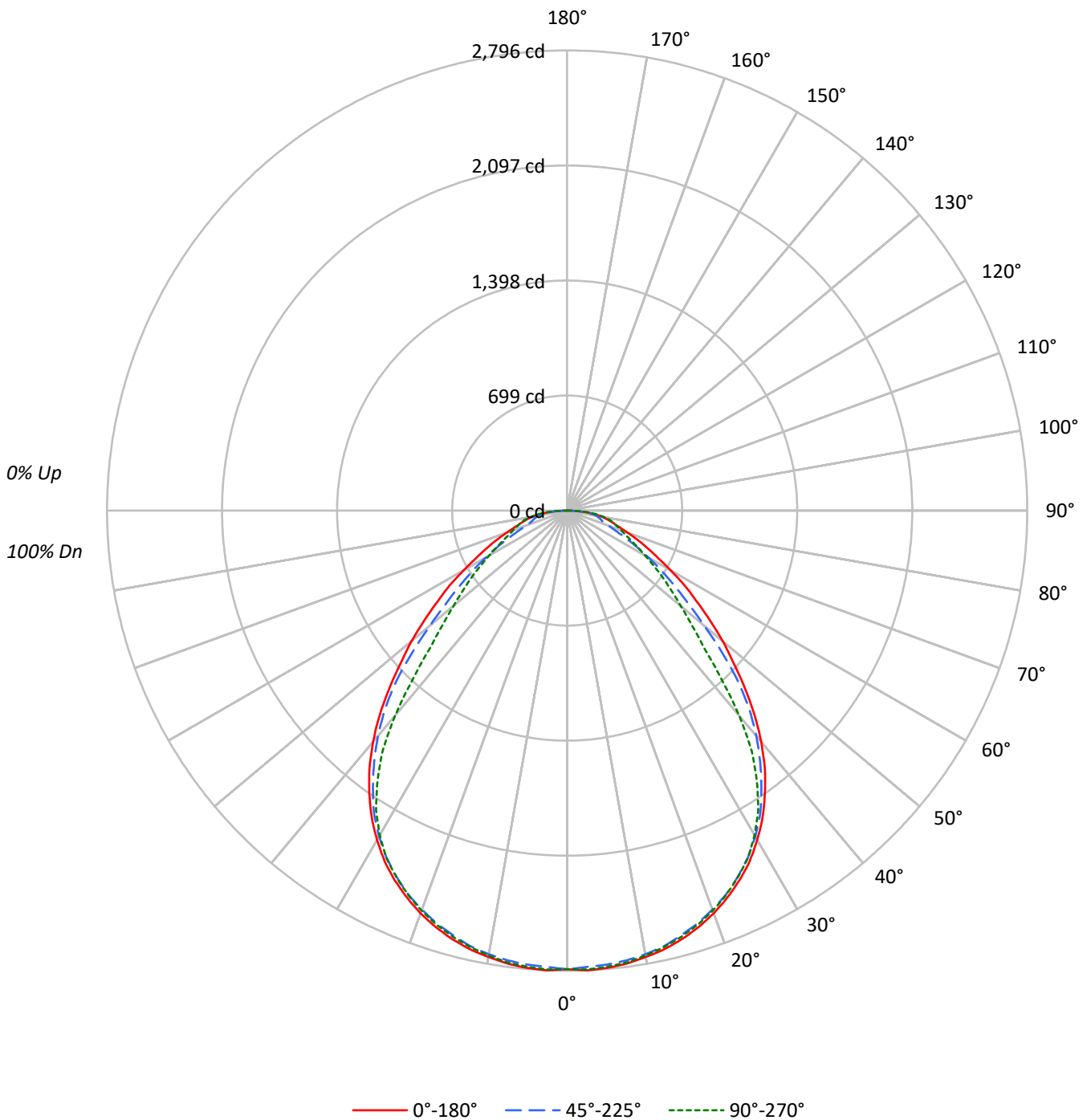
Input Watts (W): 52.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
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°	9390	9390	9390
5°	9435	9364	9411
10°	9423	9365	9389
15°	9406	9322	9351
20°	9339	9253	9278
25°	9215	9126	9132
30°	8990	8896	8858
35°	8621	8465	8272
40°	8070	7865	7157
45°	7289	7013	5594
50°	6464	5693	4731
55°	5641	4672	4173
60°	4891	3844	3684
65°	4290	3085	3401
70°	3827	2617	3424
75°	3733	2760	3825
80°	4137	3481	4384
85°	4311	3715	5134



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.4	4.3
10°-20°	757.4	12.5
20°-30°	1133.0	18.6
30°-40°	1279.0	21.0
40°-50°	1085.0	17.8
50°-60°	734.1	12.1
60°-70°	438.2	7.2
70°-80°	274.4	4.5
80°-90°	115.4	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°	2154.8	35.4
0°-40°	3433.7	56.5
0°-60°	5252.8	86.4
0°-90°	6080.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6080.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2787	2787	2787	2787	2787	
5°	2789	2781	2768	2788	2782	265
15°	2696	2691	2672	2691	2680	760
25°	2479	2470	2455	2466	2456	1140
35°	2096	2082	2058	2040	2011	1306
45°	1530	1535	1472	1261	1174	1179
55°	960	915	795	712	710	865
65°	538	446	387	412	427	538
75°	287	256	212	280	294	308
85°	112	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°	2786.6	2786.6	2786.6	2786.6	2786.6
2.5°	2796.4	2787.8	2775.1	2792.3	2790.8
5°	2789.3	2781.0	2768.3	2787.8	2782.2
7.5°	2776.6	2769.4	2757.0	2775.1	2769.4
10°	2754.0	2748.4	2737.1	2752.5	2744.2
12.5°	2730.0	2725.9	2711.6	2725.9	2717.3
15°	2696.2	2690.6	2672.2	2690.6	2680.5
17.5°	2653.8	2646.7	2631.3	2646.7	2638.1
20°	2604.3	2596.0	2580.3	2596.0	2587.4
22.5°	2545.0	2537.9	2524.0	2537.9	2526.6
25°	2478.6	2470.3	2454.6	2465.8	2456.1
27.5°	2402.4	2391.1	2376.9	2385.5	2379.9
30°	2310.5	2296.6	2286.5	2286.5	2276.7
32.5°	2210.3	2200.5	2183.6	2173.5	2160.8
35°	2095.8	2081.9	2057.9	2039.5	2011.0
37.5°	1973.1	1956.2	1926.5	1879.7	1841.7
40°	1834.6	1813.3	1788.1	1696.2	1627.1
42.5°	1686.4	1681.9	1638.4	1481.5	1385.5
45°	1529.6	1535.2	1471.7	1261.2	1173.8
47.5°	1371.2	1391.1	1275.5	1069.1	1024.0
50°	1233.1	1239.9	1086.0	928.0	902.5
52.5°	1090.5	1078.9	926.5	816.2	797.8
55°	960.3	915.2	795.2	711.9	710.4
57.5°	845.9	762.6	679.2	617.3	624.4
60°	725.8	632.7	570.4	536.6	546.7
62.5°	619.9	531.0	475.9	466.1	483.0
65°	538.1	446.2	386.9	412.4	426.6
67.5°	460.4	382.8	314.9	375.6	381.3
70°	388.4	331.8	265.6	346.0	347.5
72.5°	329.1	293.8	230.1	313.7	317.8
75°	286.7	255.6	212.0	279.6	293.8
77.5°	251.4	218.8	196.3	241.6	265.6
80°	213.2	176.4	179.4	201.9	225.9
82.5°	164.0	137.0	142.6	166.6	183.5
85°	111.5	105.8	96.1	124.2	132.8
87.5°	59.3	56.6	49.5	70.6	66.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)