

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: P476285

Luminaire Tested: **14GR-LD5-60-A-UNV-L830-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476285  
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-L830-CD1-U  
Description: GR 1'X4' LED TROFFER w/ A LENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5753.0 lumens  
Efficiency: N/A  
Efficacy: 110.4 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

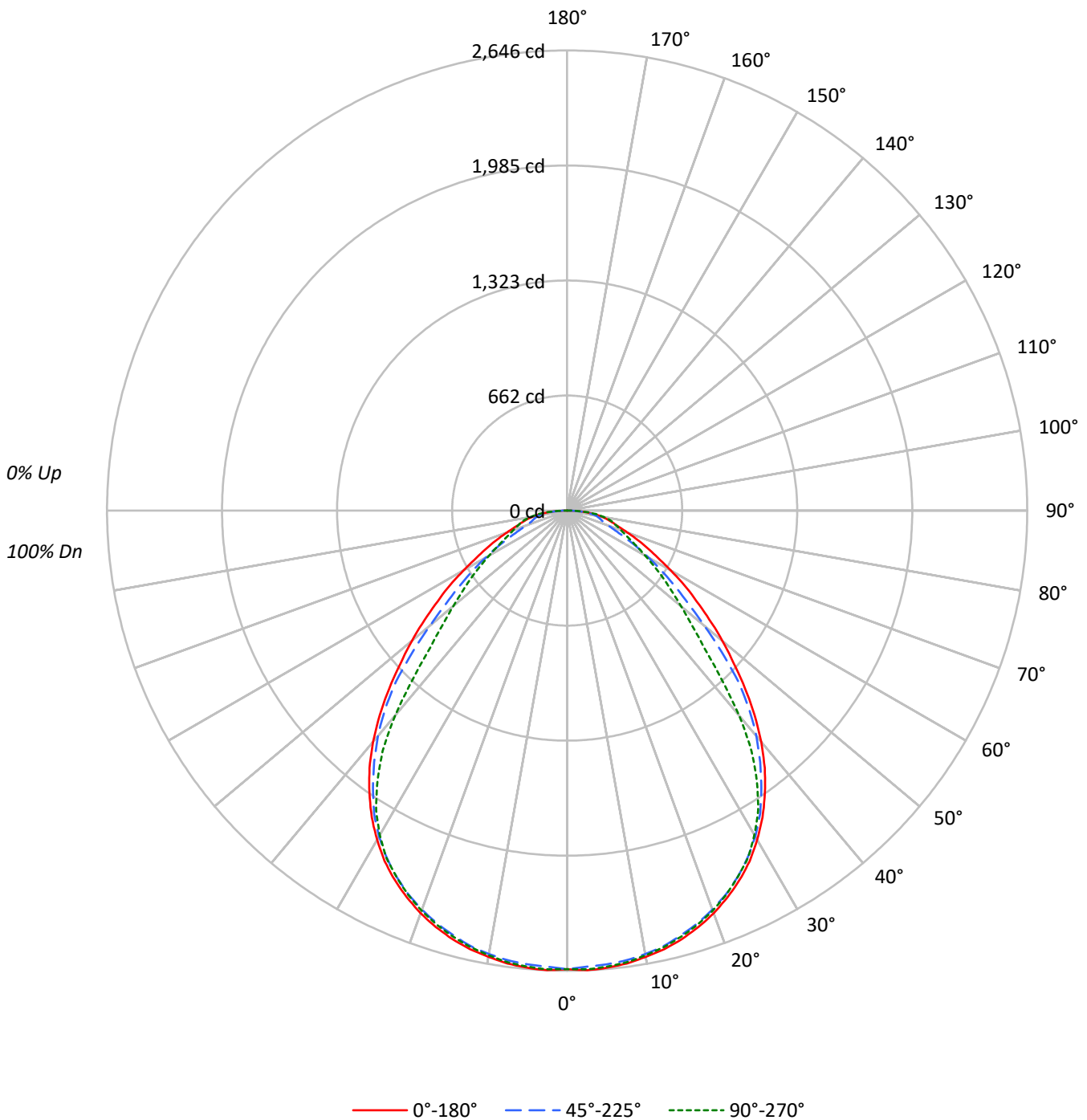
Input Watts (W): 52.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				
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°	8884	8884	8884
5°	8926	8859	8903
10°	8915	8860	8883
15°	8898	8819	8847
20°	8835	8754	8778
25°	8718	8634	8639
30°	8505	8417	8381
35°	8156	8009	7826
40°	7635	7441	6771
45°	6896	6635	5292
50°	6115	5386	4476
55°	5337	4420	3948
60°	4628	3637	3485
65°	4059	2918	3218
70°	3620	2476	3238
75°	3531	2612	3619
80°	3914	3293	4147
85°	4079	3514	4860



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.1	4.3
10°-20°	716.5	12.5
20°-30°	1071.9	18.6
30°-40°	1210.0	21.0
40°-50°	1026.5	17.8
50°-60°	694.5	12.1
60°-70°	414.5	7.2
70°-80°	259.6	4.5
80°-90°	109.2	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°	2038.6	35.4
0°-40°	3248.6	56.5
0°-60°	4969.6	86.4
0°-90°	5753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5753.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2636	2636	2636	2636	2636	
5°	2639	2631	2619	2638	2632	251
15°	2551	2546	2528	2546	2536	719
25°	2345	2337	2322	2333	2324	1078
35°	1983	1970	1947	1930	1903	1235
45°	1447	1452	1392	1193	1110	1115
55°	908	866	752	674	672	818
65°	509	422	366	390	404	509
75°	271	242	201	264	278	292
85°	106	100	91	118	126	114
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2636.4	2636.4	2636.4	2636.4	2636.4
2.5°	2645.6	2637.5	2625.4	2641.7	2640.3
5°	2638.9	2631.0	2619.0	2637.5	2632.2
7.5°	2626.8	2620.1	2608.3	2625.4	2620.1
10°	2605.5	2600.2	2589.5	2604.1	2596.3
12.5°	2582.8	2578.9	2565.4	2578.9	2570.7
15°	2550.8	2545.5	2528.1	2545.5	2536.0
17.5°	2510.7	2504.0	2489.4	2504.0	2495.8
20°	2463.9	2456.0	2441.2	2456.0	2447.9
22.5°	2407.8	2401.0	2387.9	2401.0	2390.4
25°	2344.9	2337.1	2322.2	2332.9	2323.6
27.5°	2272.9	2262.2	2248.7	2256.9	2251.5
30°	2185.9	2172.7	2163.2	2163.2	2153.9
32.5°	2091.1	2081.8	2065.8	2056.3	2044.3
35°	1982.8	1969.6	1946.9	1929.5	1902.6
37.5°	1866.7	1850.7	1822.7	1778.3	1742.4
40°	1735.7	1715.5	1691.7	1604.7	1539.4
42.5°	1595.5	1591.3	1550.0	1401.6	1310.8
45°	1447.1	1452.4	1392.4	1193.2	1110.5
47.5°	1297.3	1316.1	1206.7	1011.5	968.8
50°	1166.6	1173.0	1027.5	878.0	853.8
52.5°	1031.7	1020.7	876.5	772.2	754.8
55°	908.5	865.9	752.3	673.5	672.1
57.5°	800.3	721.4	642.6	584.0	590.7
60°	686.7	598.6	539.7	507.7	517.2
62.5°	586.5	502.4	450.2	440.9	456.9
65°	509.1	422.1	366.0	390.2	403.6
67.5°	435.6	362.1	297.9	355.4	360.7
70°	367.4	313.9	251.3	327.3	328.7
72.5°	311.4	278.0	217.7	296.8	300.7
75°	271.2	241.8	200.6	264.5	278.0
77.5°	237.9	207.0	185.7	228.6	251.3
80°	201.7	166.9	169.7	191.0	213.7
82.5°	155.1	129.6	134.9	157.6	173.6
85°	105.5	100.1	90.9	117.5	125.7
87.5°	56.1	53.6	46.8	66.8	62.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)