

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: P234058

Luminaire Tested: **14GR-LD5-60-A-UNV-L935-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234058  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-60-A-UNV-L935-CD1-U  
Description: METALUX 1X4 GRLED TROFFER  
WITH A LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5175.6 lumens  
Efficiency: N/A  
Efficacy: 86.4 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

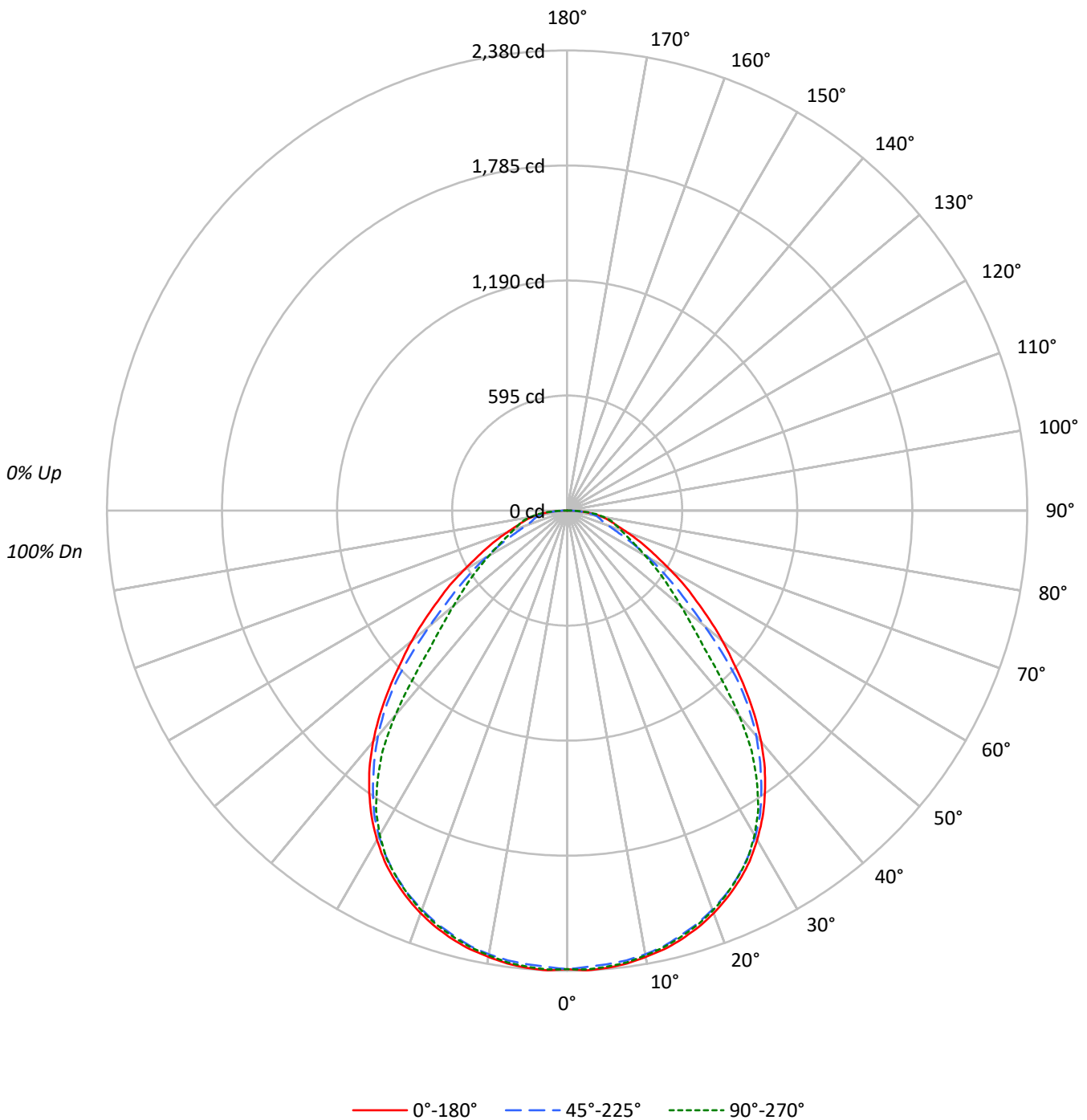
Input Watts (W): 59.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7992	7992	7992
5°	8030	7969	8010
10°	8020	7971	7991
15°	8005	7934	7959
20°	7948	7875	7897
25°	7844	7767	7772
30°	7652	7572	7539
35°	7338	7204	7041
40°	6869	6694	6091
45°	6204	5969	4760
50°	5501	4846	4026
55°	4802	3976	3552
60°	4164	3273	3135
65°	3652	2626	2894
70°	3257	2227	2913
75°	3177	2347	3256
80°	3522	2963	3733
85°	3669	3163	4369



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.0	4.3
10°-20°	644.6	12.5
20°-30°	964.3	18.6
30°-40°	1088.6	21.0
40°-50°	923.5	17.8
50°-60°	624.8	12.1
60°-70°	373.0	7.2
70°-80°	233.6	4.5
80°-90°	98.3	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°	1834.0	35.4
0°-40°	2922.5	56.5
0°-60°	4470.8	86.4
0°-90°	5175.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5175.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2372	2372	2372	2372	2372	
5°	2374	2367	2356	2373	2368	226
15°	2295	2290	2274	2290	2282	647
25°	2110	2102	2089	2099	2090	970
35°	1784	1772	1751	1736	1712	1111
45°	1302	1307	1253	1074	999	1003
55°	817	779	677	606	605	736
65°	458	380	329	351	363	458
75°	244	218	180	238	250	262
85°	95	90	82	106	113	102
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2371.7	2371.7	2371.7	2371.7	2371.7
2.5°	2380.1	2372.9	2362.1	2376.5	2375.3
5°	2374.1	2366.9	2356.1	2372.9	2368.1
7.5°	2363.3	2357.3	2346.5	2362.1	2357.3
10°	2344.0	2339.3	2329.7	2342.9	2335.6
12.5°	2323.6	2320.0	2308.0	2320.0	2312.8
15°	2294.7	2290.0	2274.3	2290.0	2281.6
17.5°	2258.7	2252.7	2239.5	2252.7	2245.5
20°	2216.6	2209.4	2196.2	2209.4	2202.2
22.5°	2166.1	2160.1	2148.1	2160.1	2150.5
25°	2109.7	2102.5	2089.2	2098.8	2090.4
27.5°	2044.8	2035.2	2023.1	2030.3	2025.6
30°	1966.6	1954.6	1946.2	1946.2	1937.7
32.5°	1881.2	1872.8	1858.4	1850.0	1839.2
35°	1783.9	1771.9	1751.4	1735.8	1711.7
37.5°	1679.3	1664.9	1639.6	1600.0	1567.5
40°	1561.5	1543.5	1521.8	1443.7	1384.8
42.5°	1435.3	1431.7	1394.4	1261.0	1179.2
45°	1301.9	1306.7	1252.6	1073.5	998.9
47.5°	1167.2	1184.0	1085.4	910.0	871.5
50°	1049.4	1055.4	924.4	789.7	768.1
52.5°	928.0	918.4	788.5	694.8	679.2
55°	817.4	778.9	676.8	605.9	604.7
57.5°	720.0	649.1	578.2	525.3	531.3
60°	617.9	538.6	485.6	456.8	465.2
62.5°	527.7	451.9	405.1	396.7	411.1
65°	458.0	379.9	329.4	351.0	363.0
67.5°	391.8	325.8	268.1	319.8	324.5
70°	330.6	282.5	226.0	294.5	295.7
72.5°	280.1	250.1	195.9	266.9	270.5
75°	244.0	217.6	180.3	238.0	250.1
77.5°	213.9	186.3	167.1	205.5	226.0
80°	181.5	150.3	152.7	171.9	192.4
82.5°	139.4	116.6	121.4	141.9	156.2
85°	94.9	90.2	81.8	105.8	113.0
87.5°	50.5	48.1	42.1	60.1	56.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)