

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: P234052

Luminaire Tested: **14GR-LD5-60-F1-UNV-L950-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234052  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-60-F1-UNV-L950-CD1-U  
Description: METALUX 1X4 GRLED TROFFER  
WITH F1 LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6030.1 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

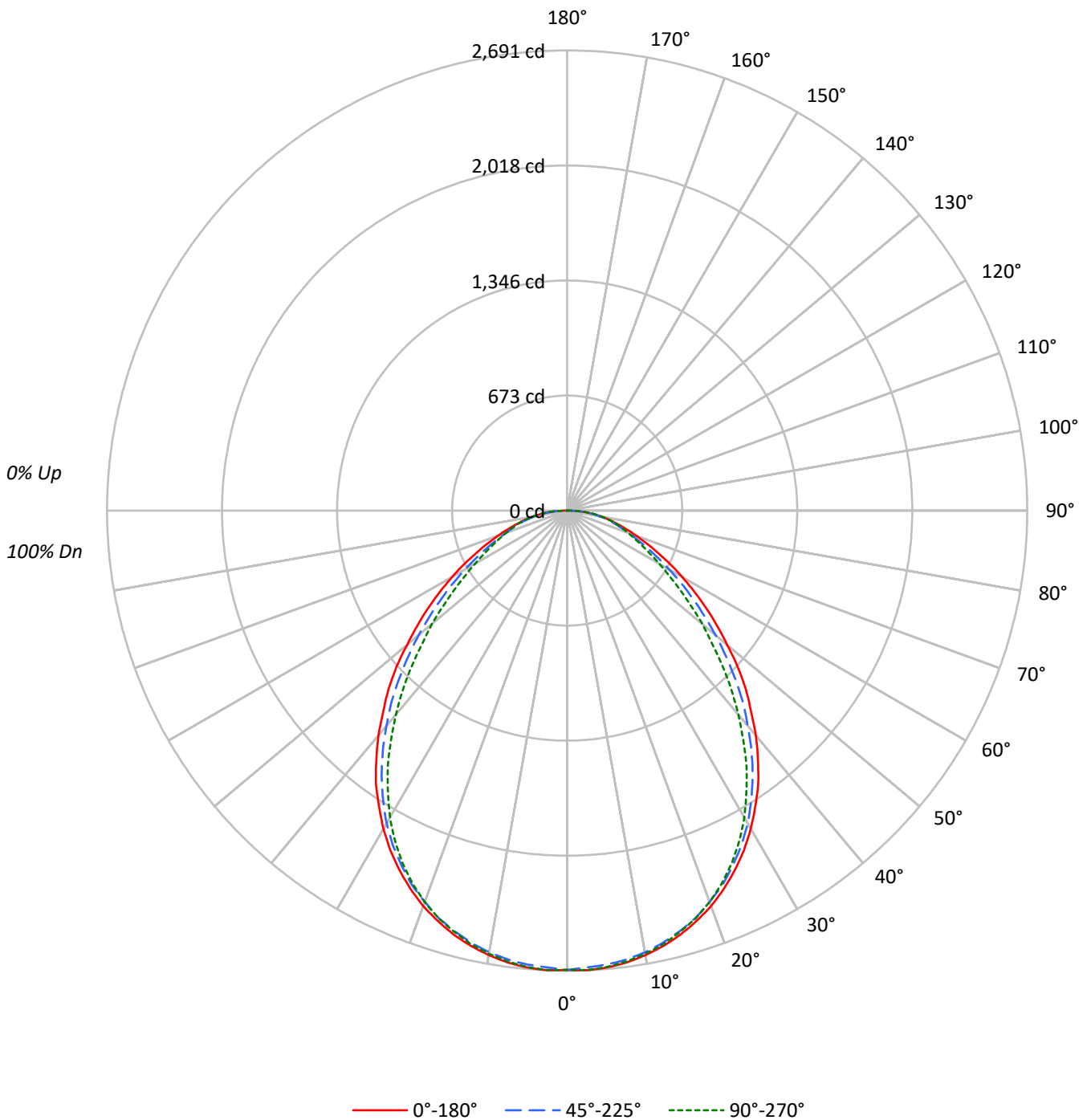
Input Watts (W): 59.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85				85
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55				55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48				48
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43				43
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38				38
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34				34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31				31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28				28

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

	0°	45°	90°
0°	9052	9052	9052
5°	9072	9015	9062
10°	9032	8973	9003
15°	8951	8882	8897
20°	8826	8729	8734
25°	8625	8520	8462
30°	8359	8216	8062
35°	8017	7784	7528
40°	7552	7228	6848
45°	7042	6617	6124
50°	6403	5936	5409
55°	5829	5263	4714
60°	5227	4636	4187
65°	4661	4131	3849
70°	4238	3764	3723
75°	3962	3666	3851
80°	3982	3790	4011
85°	4160	3885	4434



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.0	4.2
10°-20°	720.1	11.9
20°-30°	1055.8	17.5
30°-40°	1178.4	19.5
40°-50°	1066.9	17.7
50°-60°	805.6	13.4
60°-70°	526.6	8.7
70°-80°	309.3	5.1
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°	2030.0	33.7
0°-40°	3208.4	53.2
0°-60°	5080.9	84.3
0°-90°	6030.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6030.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2686	2686	2686	2686	2686	
5°	2682	2676	2665	2681	2679	255
15°	2566	2562	2546	2560	2550	723
25°	2320	2311	2292	2287	2276	1067
35°	1949	1932	1892	1850	1830	1214
45°	1478	1455	1388	1313	1285	1135
55°	992	970	896	825	802	888
65°	585	566	518	488	483	586
75°	304	296	282	287	296	327
85°	108	103	100	113	115	114
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2686.3	2686.3	2686.3	2686.3	2686.3
2.5°	2690.6	2686.3	2673.6	2690.6	2689.1
5°	2682.1	2676.4	2665.1	2680.7	2679.2
7.5°	2665.1	2659.5	2648.1	2662.3	2659.5
10°	2639.6	2634.0	2622.6	2638.2	2631.2
12.5°	2607.1	2601.4	2588.7	2602.9	2597.1
15°	2566.0	2561.8	2546.2	2560.4	2550.5
17.5°	2516.5	2509.4	2498.1	2506.6	2499.5
20°	2461.3	2452.8	2434.4	2442.9	2435.8
22.5°	2394.8	2383.5	2370.7	2370.7	2360.8
25°	2319.8	2311.3	2291.5	2287.2	2275.9
27.5°	2239.1	2232.0	2206.6	2199.5	2179.6
30°	2148.5	2138.6	2111.7	2089.1	2072.1
32.5°	2048.0	2040.9	2004.1	1974.4	1950.3
35°	1948.9	1931.9	1892.3	1849.8	1830.0
37.5°	1832.9	1820.2	1770.6	1718.3	1691.3
40°	1716.8	1701.2	1643.2	1585.2	1556.9
42.5°	1590.9	1576.7	1521.5	1452.2	1422.4
45°	1477.7	1455.0	1388.5	1313.4	1285.1
47.5°	1353.1	1329.1	1258.3	1179.0	1146.4
50°	1221.5	1205.8	1132.3	1055.9	1031.8
52.5°	1104.0	1079.9	1010.6	935.6	910.1
55°	992.2	969.5	895.9	825.2	802.5
57.5°	880.3	854.9	791.2	727.5	704.9
60°	775.6	750.1	687.9	635.5	621.3
62.5°	680.8	652.5	597.2	556.2	546.4
65°	584.6	566.1	518.1	488.3	482.7
67.5°	503.9	481.2	443.0	428.9	426.1
70°	430.2	414.7	382.1	377.9	377.9
72.5°	363.7	351.0	327.0	329.8	334.1
75°	304.3	295.8	281.6	287.3	295.8
77.5°	253.3	244.9	236.3	244.9	250.5
80°	205.2	196.7	195.3	202.4	206.7
82.5°	154.2	147.2	148.6	160.0	164.2
85°	107.6	103.3	100.5	113.2	114.7
87.5°	55.2	52.3	51.0	60.9	58.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)