

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: P234059

Luminaire Tested: **14GR-LD5-60-A-UNV-L940-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234059  
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-L940-CD1-U  
Description: METALUX 1X4 GRLED TROFFER  
WITH A LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5236.6 lumens  
Efficiency: N/A  
Efficacy: 87.4 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

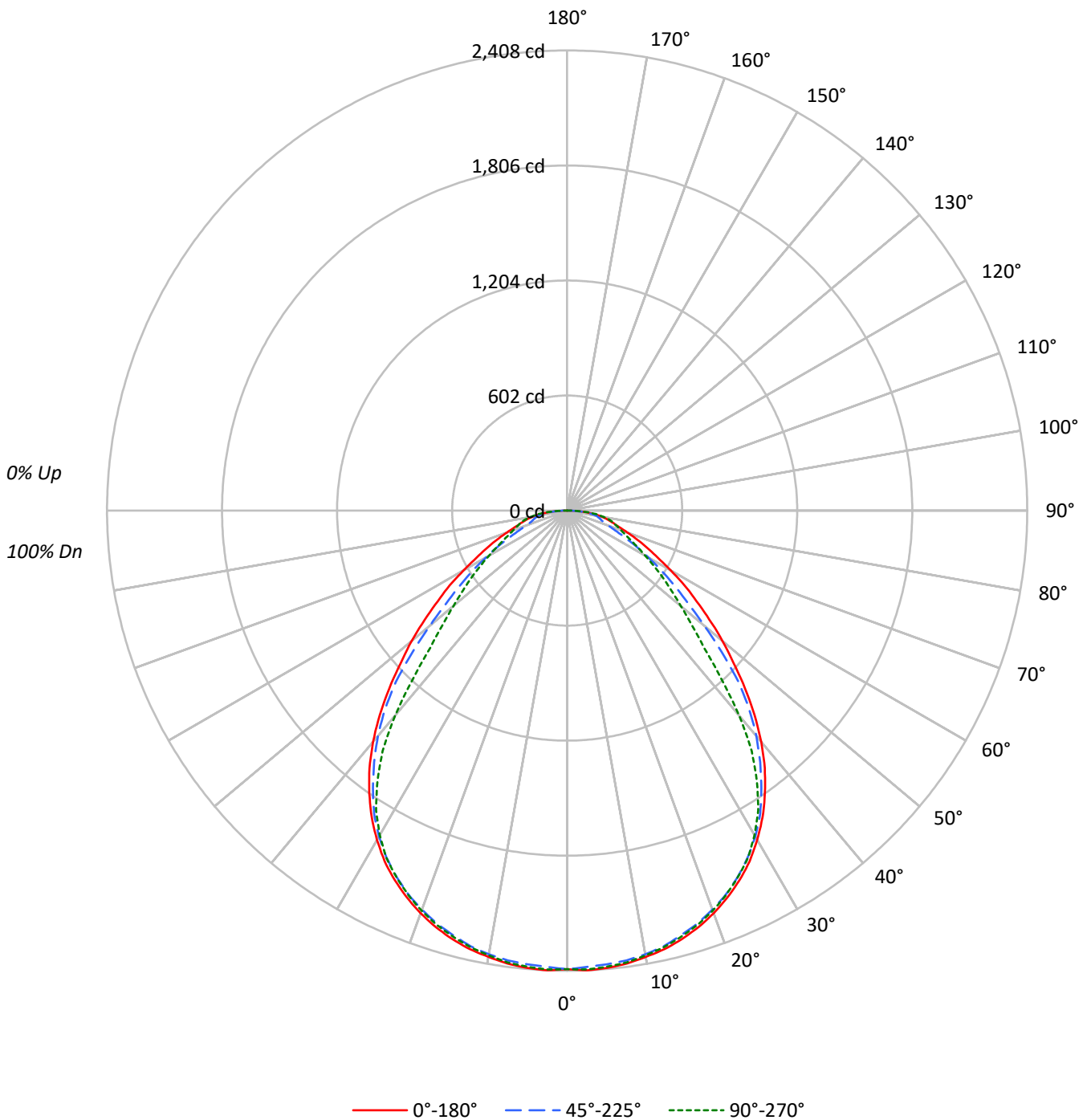
Input Watts (W): 59.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P234059

CATALOG NUMBER: 14GR-LD5-60-A-UNV-L940-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P234059

CATALOG NUMBER: 14GR-LD5-60-A-UNV-L940-CD1-U

**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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	8086	8086	8086
5°	8125	8063	8104
10°	8115	8065	8085
15°	8099	8027	8053
20°	8042	7968	7990
25°	7936	7859	7863
30°	7742	7661	7628
35°	7424	7289	7124
40°	6949	6773	6163
45°	6277	6039	4816
50°	5566	4902	4074
55°	4859	4022	3594
60°	4213	3311	3172
65°	3695	2657	2929
70°	3295	2253	2948
75°	3214	2375	3294
80°	3563	2998	3776
85°	3715	3197	4419



TEST NUMBER: P234059

CATALOG NUMBER: 14GR-LD5-60-A-UNV-L940-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.7	4.3
10°-20°	652.2	12.5
20°-30°	975.7	18.6
30°-40°	1101.4	21.0
40°-50°	934.3	17.8
50°-60°	632.2	12.1
60°-70°	377.4	7.2
70°-80°	236.3	4.5
80°-90°	99.4	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°	1855.6	35.4
0°-40°	2956.9	56.5
0°-60°	4523.5	86.4
0°-90°	5236.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5236.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2400	2400	2400	2400	2400	
5°	2402	2395	2384	2401	2396	228
15°	2322	2317	2301	2317	2308	655
25°	2134	2127	2114	2124	2115	981
35°	1805	1793	1772	1756	1732	1125
45°	1317	1322	1267	1086	1011	1015
55°	827	788	685	613	612	745
65°	463	384	333	355	367	463
75°	247	220	182	241	253	265
85°	96	91	83	107	114	103
90°	0	0	0	0	0	



TEST NUMBER: P234059

CATALOG NUMBER: 14GR-LD5-60-A-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2399.6	2399.6	2399.6	2399.6	2399.6
2.5°	2408.1	2400.9	2389.9	2404.5	2403.3
5°	2402.1	2394.8	2383.8	2400.9	2396.0
7.5°	2391.1	2385.0	2374.1	2389.9	2385.0
10°	2371.6	2366.8	2357.1	2370.4	2363.1
12.5°	2351.0	2347.3	2335.2	2347.3	2340.1
15°	2321.7	2316.9	2301.1	2316.9	2308.4
17.5°	2285.3	2279.2	2265.8	2279.2	2271.9
20°	2242.7	2235.4	2222.1	2235.4	2228.1
22.5°	2191.6	2185.5	2173.4	2185.5	2175.8
25°	2134.5	2127.2	2113.8	2123.5	2115.0
27.5°	2068.8	2059.1	2046.9	2054.2	2049.4
30°	1989.8	1977.6	1969.1	1969.1	1960.5
32.5°	1903.4	1894.8	1880.3	1871.8	1860.9
35°	1804.9	1792.8	1772.0	1756.2	1731.9
37.5°	1699.1	1684.5	1658.9	1618.8	1585.9
40°	1579.9	1561.7	1539.7	1460.7	1401.1
42.5°	1452.2	1448.5	1410.8	1275.8	1193.1
45°	1317.2	1322.1	1267.3	1086.1	1010.7
47.5°	1181.0	1198.0	1098.2	920.7	881.8
50°	1061.8	1067.9	935.2	799.0	777.2
52.5°	938.9	929.2	797.8	703.0	687.1
55°	827.1	788.1	684.7	613.0	611.8
57.5°	728.5	656.8	585.0	531.5	537.6
60°	625.1	544.9	491.3	462.2	470.7
62.5°	533.9	457.3	409.9	401.4	416.0
65°	463.4	384.3	333.2	355.2	367.3
67.5°	396.5	329.6	271.2	323.5	328.3
70°	334.5	285.8	228.7	298.0	299.2
72.5°	283.4	253.0	198.2	270.0	273.7
75°	246.9	220.2	182.4	240.8	253.0
77.5°	216.5	188.5	169.1	207.9	228.7
80°	183.6	152.0	154.5	173.9	194.6
82.5°	141.0	118.0	122.8	143.5	158.1
85°	96.1	91.2	82.7	107.1	114.3
87.5°	51.1	48.7	42.6	60.8	57.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)