

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: P234075

Luminaire Tested: **14GR-LD5-60-A19/156-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33288)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-60-A19/156-UNV-L940-CD1-U
Description: METALUX 1X4 GRLED TROFFER
WITH A19/156 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5037.0 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.18
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

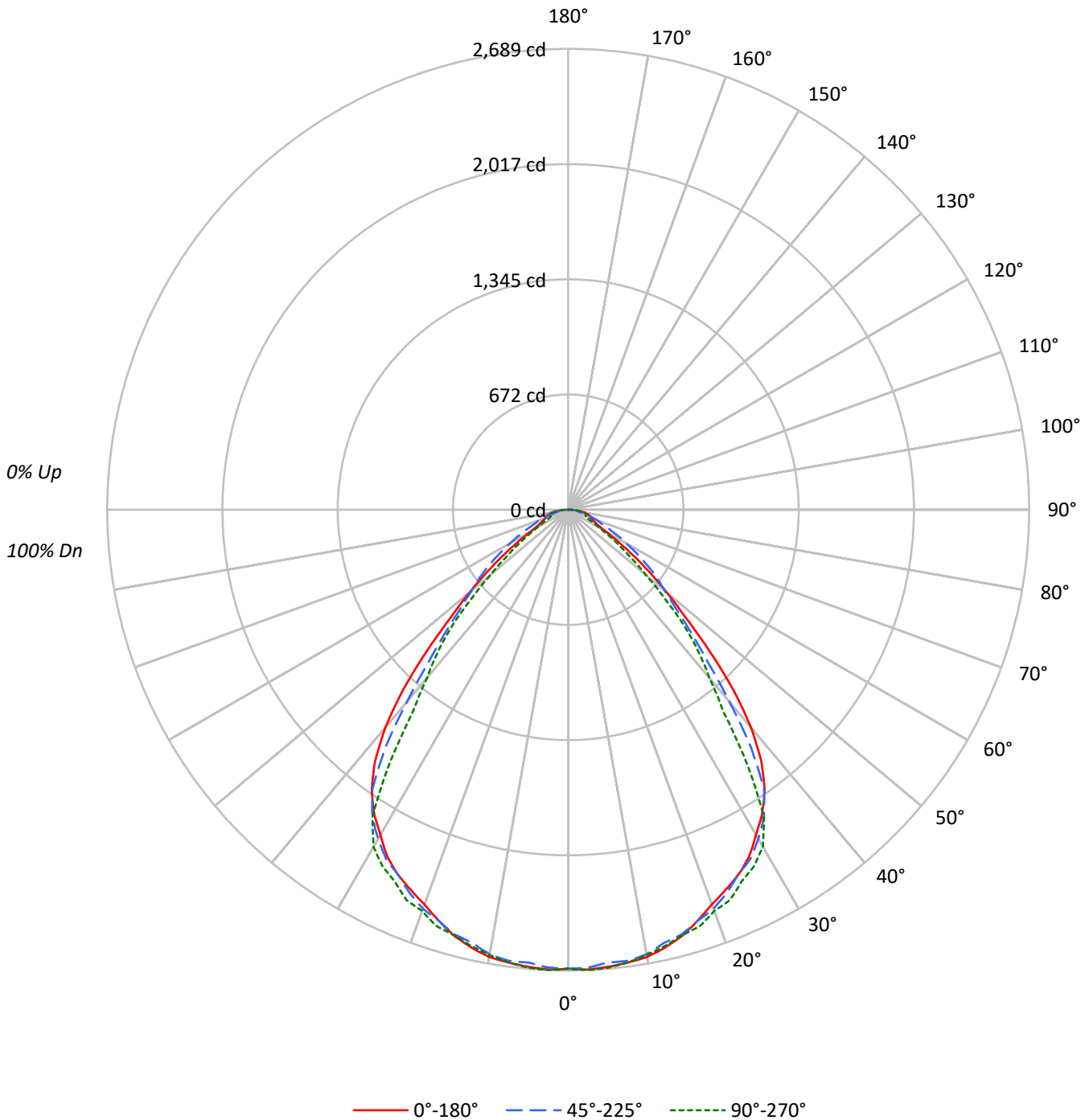
Input Watts (W): 59.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90					88				
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79					77				
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70					68				
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63					61				
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56					54				
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51					49				
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46					44				
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42					40				
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38					37				
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35					34				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9025	9025	9025
5°	9056	8970	9075
10°	9070	9015	9031
15°	8978	8945	8966
20°	8790	8885	8935
25°	8737	8732	8900
30°	8524	8627	8838
35°	8220	8186	7522
40°	7298	6441	5640
45°	5539	4819	4560
50°	3929	3856	3095
55°	2689	3292	2127
60°	1663	2627	1422
65°	1370	2023	1030
70°	1364	1761	1056
75°	1635	1260	1411
80°	1878	1162	1768
85°	1782	2053	2007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.1	5.0
10°-20°	725.4	14.4
20°-30°	1090.8	21.7
30°-40°	1189.2	23.6
40°-50°	832.7	16.5
50°-60°	471.3	9.4
60°-70°	257.9	5.1
70°-80°	156.3	3.1
80°-90°	59.3	1.2
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°	2070.3	41.1
0°-40°	3259.5	64.7
0°-60°	4563.5	90.6
0°-90°	5037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5037.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2678	2678	2678	2678	2678	
5°	2677	2673	2652	2683	2683	255
15°	2574	2567	2564	2601	2570	724
25°	2350	2354	2349	2403	2394	1079
35°	1998	1989	1990	1889	1829	1231
45°	1162	1213	1011	998	957	903
55°	458	548	560	556	362	418
65°	172	282	254	320	129	176
75°	126	181	97	190	108	130
85°	46	75	53	65	52	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2678.5	2678.5	2678.5	2678.5	2678.5
2.5°	2685.4	2681.9	2673.9	2690.0	2688.9
5°	2677.4	2672.7	2652.0	2683.1	2683.1
7.5°	2665.8	2654.3	2655.4	2672.7	2664.6
10°	2650.8	2631.3	2634.7	2639.3	2639.3
12.5°	2616.2	2597.8	2588.5	2603.6	2608.1
15°	2573.6	2566.7	2564.3	2601.2	2570.1
17.5°	2513.6	2528.6	2514.7	2544.7	2549.4
20°	2451.3	2480.2	2477.8	2498.6	2491.7
22.5°	2400.6	2419.1	2419.1	2444.5	2465.2
25°	2349.9	2354.5	2348.7	2402.9	2393.7
27.5°	2284.2	2280.7	2299.1	2326.8	2345.3
30°	2190.8	2191.9	2217.3	2254.1	2271.4
32.5°	2105.5	2095.0	2126.2	2142.3	2123.9
35°	1998.2	1989.0	1990.1	1888.6	1828.7
37.5°	1851.8	1859.8	1753.8	1568.1	1489.7
40°	1659.2	1675.4	1464.3	1325.9	1282.2
42.5°	1426.3	1431.0	1200.3	1155.3	1126.5
45°	1162.3	1213.0	1011.2	998.5	957.0
47.5°	921.2	1015.8	847.4	855.5	756.4
50°	749.5	844.0	735.6	739.1	590.4
52.5°	592.6	684.9	649.1	638.8	463.5
55°	457.8	547.6	560.4	555.7	362.1
57.5°	336.7	433.5	470.4	487.7	279.1
60°	246.7	354.0	389.8	424.3	211.0
62.5°	196.0	306.7	319.4	370.1	163.7
65°	171.8	282.5	253.7	320.5	129.2
67.5°	153.3	268.7	206.4	283.6	113.0
70°	138.4	242.2	178.7	253.7	107.2
72.5°	138.4	212.2	140.7	224.8	108.4
75°	125.6	181.0	96.8	190.2	108.4
77.5°	111.9	154.5	72.7	154.5	101.5
80°	96.8	121.1	59.9	118.8	91.1
82.5°	71.5	91.1	51.9	88.8	73.8
85°	46.1	74.9	53.1	64.6	51.9
87.5°	21.9	38.0	33.5	32.2	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)