

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: P234080

Luminaire Tested: **14GR-LD5-50-A19/156-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234080
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-LD5-50-A19/156-UNV-L950-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: 4818.8 lumens
Efficiency: N/A
Efficacy: 106.8 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

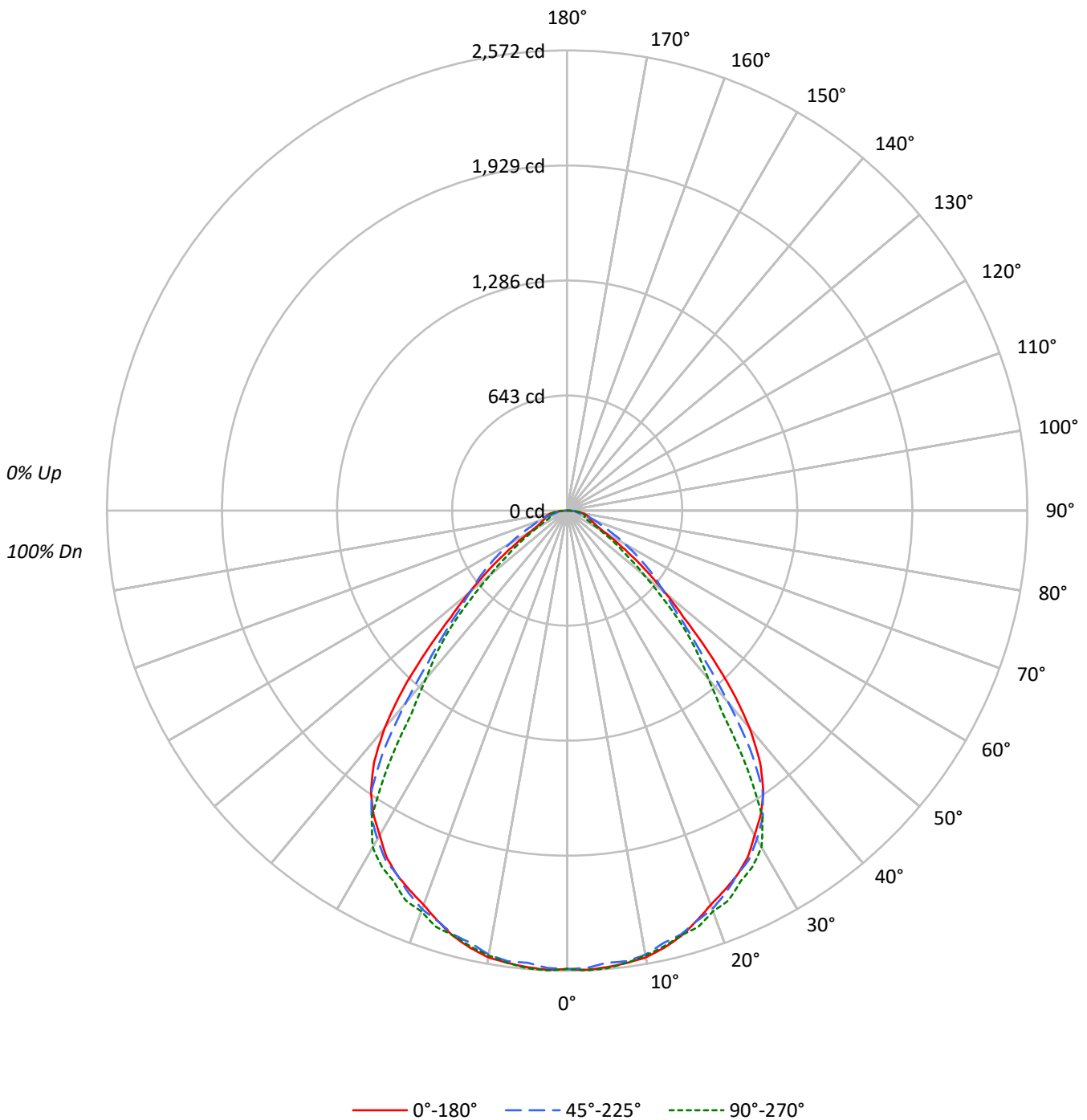
Input Watts (W): 45.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	8635	8635	8635
5°	8664	8582	8682
10°	8677	8624	8639
15°	8589	8558	8577
20°	8409	8501	8548
25°	8358	8354	8514
30°	8154	8253	8455
35°	7863	7832	7197
40°	6982	6162	5395
45°	5299	4610	4363
50°	3759	3689	2960
55°	2573	3149	2034
60°	1591	2512	1360
65°	1310	1935	985
70°	1304	1685	1011
75°	1565	1206	1349
80°	1797	1112	1692
85°	1705	1964	1918



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.1	5.0
10°-20°	694.0	14.4
20°-30°	1043.6	21.7
30°-40°	1137.7	23.6
40°-50°	796.6	16.5
50°-60°	450.9	9.4
60°-70°	246.8	5.1
70°-80°	149.5	3.1
80°-90°	56.7	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°	1980.7	41.1
0°-40°	3118.3	64.7
0°-60°	4365.8	90.6
0°-90°	4818.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4818.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2562	2562	2562	2562	2562	
5°	2561	2557	2537	2567	2567	244
15°	2462	2456	2453	2489	2459	692
25°	2248	2252	2247	2299	2290	1032
35°	1912	1903	1904	1807	1750	1178
45°	1112	1160	967	955	916	864
55°	438	524	536	532	346	400
65°	164	270	243	307	124	169
75°	120	173	93	182	104	125
85°	44	72	51	62	50	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2562.5	2562.5	2562.5	2562.5	2562.5
2.5°	2569.1	2565.7	2558.0	2573.5	2572.4
5°	2561.4	2556.9	2537.1	2566.8	2566.8
7.5°	2550.4	2539.3	2540.4	2556.9	2549.2
10°	2536.0	2517.2	2520.5	2525.0	2525.0
12.5°	2502.9	2485.2	2476.4	2490.8	2495.1
15°	2462.1	2455.5	2453.3	2488.6	2458.7
17.5°	2404.7	2419.1	2405.9	2434.5	2438.9
20°	2345.2	2372.7	2370.6	2390.4	2383.7
22.5°	2296.7	2314.2	2314.2	2338.5	2358.4
25°	2248.1	2252.5	2247.0	2298.8	2290.0
27.5°	2185.2	2181.9	2199.6	2226.0	2243.7
30°	2095.8	2096.9	2121.2	2156.5	2173.1
32.5°	2014.2	2004.3	2034.1	2049.5	2031.8
35°	1911.6	1902.8	1903.9	1806.8	1749.5
37.5°	1771.6	1779.2	1677.8	1500.2	1425.2
40°	1587.3	1602.8	1400.9	1268.5	1226.6
42.5°	1364.5	1368.9	1148.3	1105.3	1077.7
45°	1111.9	1160.4	967.4	955.2	915.6
47.5°	881.3	971.8	810.8	818.5	723.6
50°	717.0	807.4	703.8	707.1	564.7
52.5°	567.0	655.2	621.1	611.1	443.4
55°	437.9	524.0	536.1	531.7	346.3
57.5°	322.1	414.8	450.1	466.6	266.9
60°	236.1	338.6	372.8	406.0	201.8
62.5°	187.6	293.4	305.6	354.1	156.6
65°	164.3	270.3	242.7	306.7	123.6
67.5°	146.7	257.0	197.5	271.4	108.1
70°	132.4	231.7	171.0	242.7	102.6
72.5°	132.4	202.9	134.6	215.1	103.6
75°	120.2	173.2	92.6	182.0	103.6
77.5°	107.0	147.8	69.5	147.8	97.1
80°	92.6	115.8	57.3	113.7	87.2
82.5°	68.4	87.2	49.6	84.9	70.6
85°	44.1	71.7	50.8	61.8	49.6
87.5°	20.9	36.4	32.0	30.8	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)