

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: P225847

Luminaire Tested: **14GR-LD5-32-A19/156-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225847
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-LD5-32-A19/156-UNV-L950-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2930.2 lumens
Efficiency: N/A
Efficacy: 98.0 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

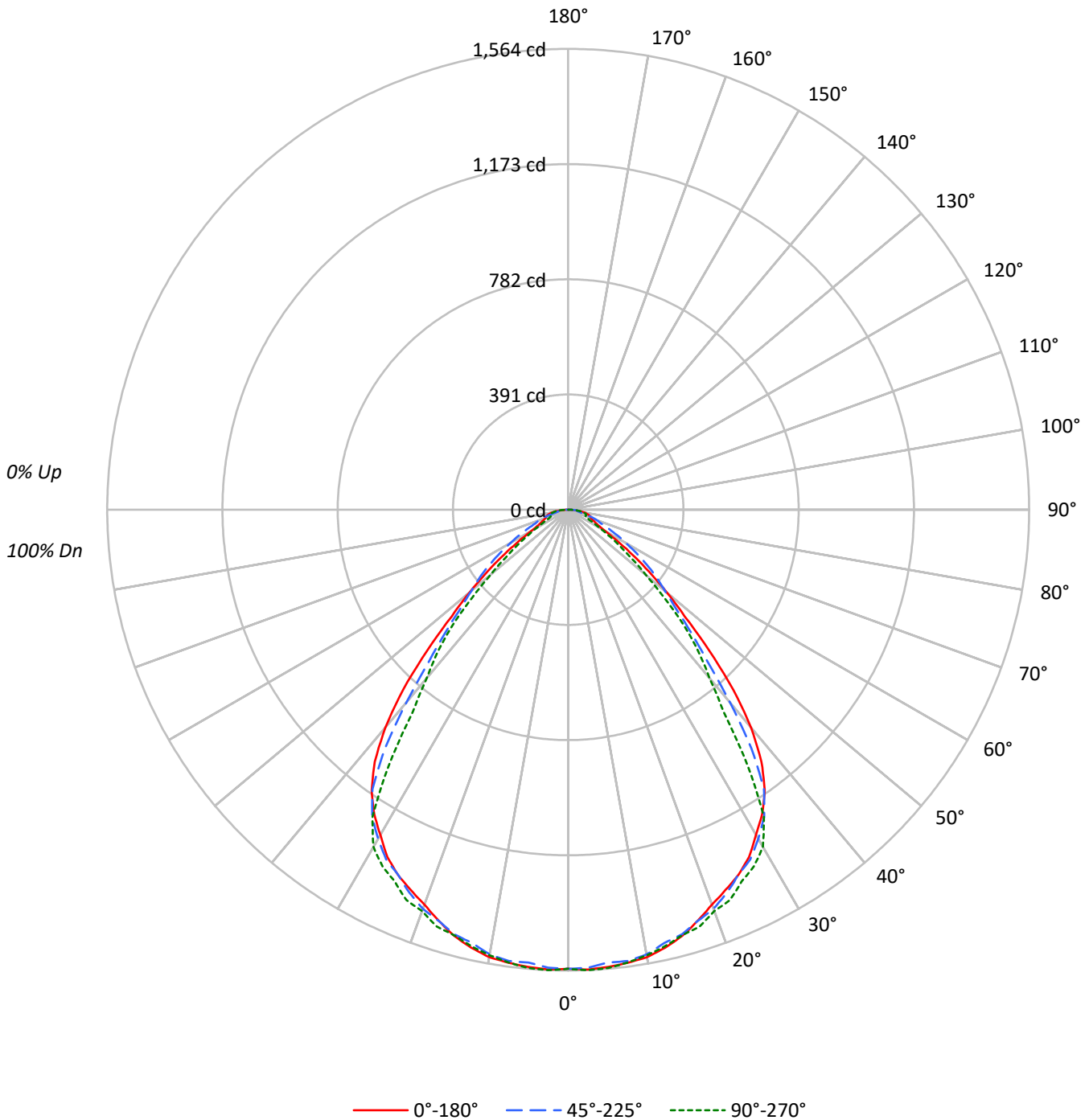
Input Watts (W): 29.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5250	5250	5250
5°	5268	5218	5279
10°	5276	5244	5253
15°	5223	5204	5216
20°	5114	5169	5198
25°	5082	5080	5177
30°	4959	5018	5141
35°	4782	4762	4376
40°	4246	3747	3281
45°	3222	2803	2653
50°	2286	2244	1800
55°	1564	1915	1237
60°	967	1528	828
65°	797	1177	600
70°	793	1024	614
75°	952	733	822
80°	1092	677	1028
85°	1036	1191	1168



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.8	5.0
10°-20°	422.0	14.4
20°-30°	634.6	21.7
30°-40°	691.8	23.6
40°-50°	484.4	16.5
50°-60°	274.2	9.4
60°-70°	150.0	5.1
70°-80°	90.9	3.1
80°-90°	34.5	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°	1204.4	41.1
0°-40°	1896.2	64.7
0°-60°	2654.8	90.6
0°-90°	2930.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2930.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1558	1558	1558	1558	1558	
5°	1558	1555	1543	1561	1561	148
15°	1497	1493	1492	1513	1495	421
25°	1367	1370	1366	1398	1392	628
35°	1162	1157	1158	1099	1064	716
45°	676	706	588	581	557	525
55°	266	319	326	323	211	243
65°	100	164	148	186	75	103
75°	73	105	56	111	63	76
85°	27	44	31	38	30	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1558.2	1558.2	1558.2	1558.2	1558.2
2.5°	1562.2	1560.2	1555.5	1564.8	1564.2
5°	1557.5	1554.8	1542.7	1560.8	1560.8
7.5°	1550.8	1544.1	1544.7	1554.8	1550.1
10°	1542.1	1530.6	1532.7	1535.4	1535.4
12.5°	1522.0	1511.2	1505.9	1514.6	1517.2
15°	1497.1	1493.1	1491.8	1513.2	1495.1
17.5°	1462.3	1470.9	1462.9	1480.4	1483.0
20°	1426.1	1442.8	1441.4	1453.5	1449.5
22.5°	1396.5	1407.2	1407.2	1422.0	1434.1
25°	1367.0	1369.6	1366.4	1397.9	1392.5
27.5°	1328.8	1326.8	1337.5	1353.6	1364.4
30°	1274.5	1275.1	1289.8	1311.3	1321.4
32.5°	1224.8	1218.8	1236.9	1246.2	1235.5
35°	1162.4	1157.1	1157.7	1098.7	1063.8
37.5°	1077.3	1081.9	1020.2	912.2	866.6
40°	965.2	974.6	851.9	771.4	745.8
42.5°	829.7	832.4	698.2	672.1	655.3
45°	676.1	705.6	588.2	580.9	556.7
47.5°	535.9	591.0	493.0	497.7	440.0
50°	436.0	491.0	428.0	430.0	343.4
52.5°	344.8	398.4	377.7	371.6	269.6
55°	266.3	318.6	326.0	323.3	210.6
57.5°	195.8	252.2	273.6	283.7	162.3
60°	143.5	205.9	226.7	246.9	122.8
62.5°	114.0	178.5	185.8	215.3	95.3
65°	99.9	164.3	147.6	186.5	75.2
67.5°	89.2	156.2	120.0	165.0	65.7
70°	80.5	140.9	103.9	147.6	62.3
72.5°	80.5	123.4	81.8	130.8	63.1
75°	73.1	105.3	56.3	110.7	63.1
77.5°	65.1	89.9	42.2	89.9	59.1
80°	56.3	70.4	34.9	69.1	53.0
82.5°	41.6	53.0	30.2	51.7	43.0
85°	26.8	43.6	30.8	37.6	30.2
87.5°	12.7	22.1	19.5	18.7	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)