

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: P213603

Luminaire Tested: **14GR-LD5-40-A19/156-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213603
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-LD5-40-A19/156-UNV-L940-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3382.3 lumens
Efficiency: N/A
Efficacy: 87.2 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

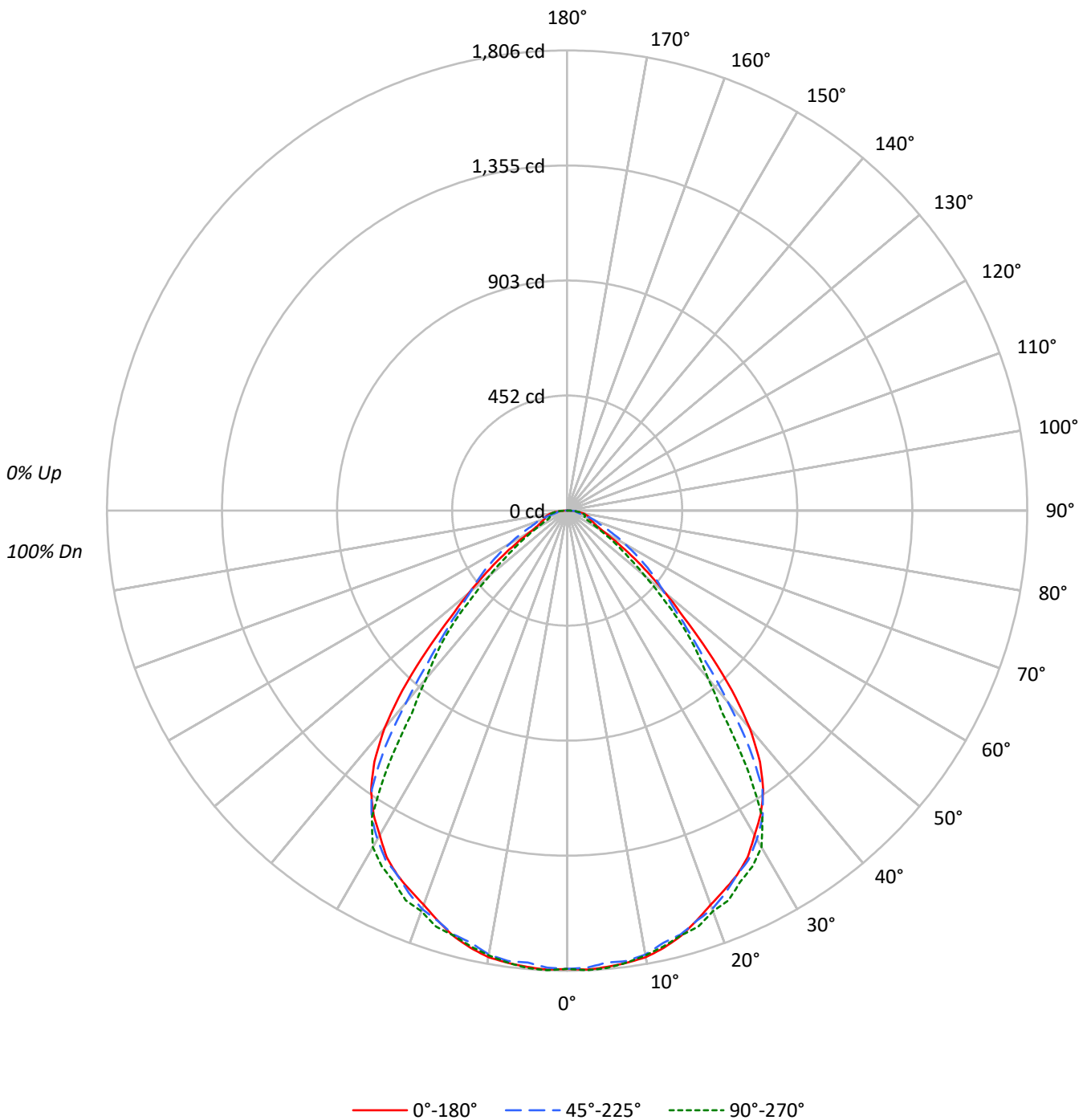
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6061	6061	6061
5°	6081	6023	6094
10°	6090	6053	6064
15°	6029	6007	6020
20°	5903	5966	6000
25°	5866	5864	5976
30°	5724	5793	5935
35°	5519	5497	5051
40°	4901	4325	3787
45°	3719	3236	3063
50°	2638	2590	2079
55°	1806	2210	1428
60°	1117	1764	955
65°	919	1359	691
70°	915	1182	709
75°	1099	846	948
80°	1261	780	1186
85°	1199	1376	1345



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.6	5.0
10°-20°	487.1	14.4
20°-30°	732.5	21.7
30°-40°	798.5	23.6
40°-50°	559.2	16.5
50°-60°	316.5	9.4
60°-70°	173.2	5.1
70°-80°	104.9	3.1
80°-90°	39.8	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°	1390.2	41.1
0°-40°	2188.8	64.7
0°-60°	3064.4	90.6
0°-90°	3382.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3382.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1799	1799	1799	1799	1799	
5°	1798	1795	1781	1802	1802	171
15°	1728	1724	1722	1747	1726	486
25°	1578	1581	1577	1614	1607	725
35°	1342	1336	1336	1268	1228	827
45°	780	814	679	670	643	606
55°	307	368	376	373	243	281
65°	115	190	170	215	87	118
75°	84	122	65	128	73	88
85°	31	50	36	43	35	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1798.6	1798.6	1798.6	1798.6	1798.6
2.5°	1803.2	1800.9	1795.5	1806.3	1805.6
5°	1797.8	1794.7	1780.8	1801.7	1801.7
7.5°	1790.1	1782.4	1783.1	1794.7	1789.3
10°	1780.0	1766.9	1769.2	1772.3	1772.3
12.5°	1756.8	1744.4	1738.2	1748.3	1751.4
15°	1728.2	1723.5	1722.0	1746.7	1725.8
17.5°	1687.9	1698.0	1688.7	1708.8	1711.9
20°	1646.1	1665.5	1663.9	1677.9	1673.2
22.5°	1612.0	1624.4	1624.4	1641.5	1655.4
25°	1577.9	1581.0	1577.2	1613.5	1607.3
27.5°	1533.8	1531.5	1543.9	1562.4	1574.8
30°	1471.1	1471.9	1488.9	1513.7	1525.3
32.5°	1413.8	1406.9	1427.8	1438.6	1426.2
35°	1341.8	1335.6	1336.4	1268.2	1228.0
37.5°	1243.5	1248.9	1177.7	1053.0	1000.4
40°	1114.1	1125.0	983.3	890.4	860.9
42.5°	957.8	960.9	806.0	775.8	756.5
45°	780.4	814.5	679.1	670.5	642.7
47.5°	618.6	682.2	569.1	574.5	507.9
50°	503.3	566.7	494.0	496.3	396.5
52.5°	398.0	459.9	435.9	429.0	311.2
55°	307.4	367.7	376.2	373.2	243.1
57.5°	226.1	291.1	315.9	327.5	187.4
60°	165.7	237.7	261.7	284.9	141.7
62.5°	131.7	206.0	214.5	248.5	109.9
65°	115.3	189.7	170.4	215.3	86.7
67.5°	102.9	180.4	138.6	190.5	75.9
70°	92.9	162.6	120.0	170.4	72.0
72.5°	92.9	142.5	94.4	151.0	72.8
75°	84.4	121.5	65.0	127.8	72.8
77.5°	75.1	103.7	48.8	103.7	68.1
80°	65.0	81.3	40.2	79.7	61.1
82.5°	48.0	61.1	34.8	59.6	49.5
85°	31.0	50.3	35.6	43.3	34.8
87.5°	14.7	25.5	22.4	21.7	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)