

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: P213582

Luminaire Tested: **14GR-LD5-40-A19/156-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213582
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-L935-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3343.0 lumens
Efficiency: N/A
Efficacy: 86.2 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

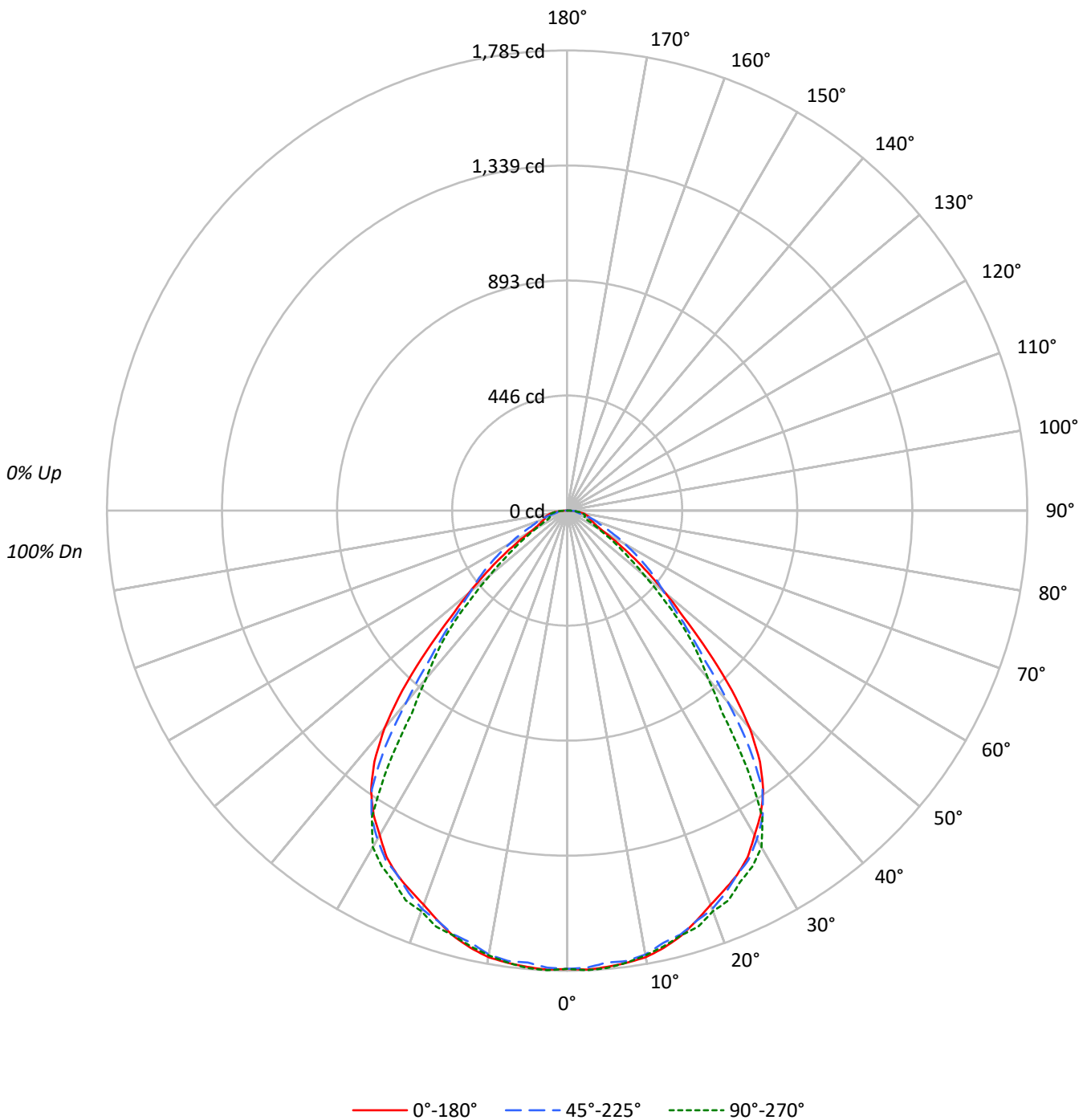
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5990	5990	5990
5°	6010	5953	6023
10°	6020	5983	5994
15°	5959	5937	5951
20°	5834	5897	5930
25°	5798	5795	5906
30°	5657	5726	5866
35°	5455	5433	4993
40°	4844	4275	3743
45°	3676	3198	3027
50°	2607	2559	2054
55°	1785	2185	1412
60°	1104	1743	944
65°	909	1343	683
70°	904	1168	700
75°	1086	837	936
80°	1248	772	1172
85°	1183	1361	1330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	5.0
10°-20°	481.4	14.4
20°-30°	724.0	21.7
30°-40°	789.3	23.6
40°-50°	552.6	16.5
50°-60°	312.8	9.4
60°-70°	171.2	5.1
70°-80°	103.7	3.1
80°-90°	39.3	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°	1374.1	41.1
0°-40°	2163.3	64.7
0°-60°	3028.8	90.6
0°-90°	3343.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3343.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1778	1778	1778	1778	1778	
5°	1777	1774	1760	1781	1781	169
15°	1708	1704	1702	1726	1706	480
25°	1560	1563	1559	1595	1589	716
35°	1326	1320	1321	1254	1214	817
45°	771	805	671	663	635	599
55°	304	364	372	369	240	278
65°	114	188	168	213	86	117
75°	83	120	64	126	72	86
85°	31	50	35	43	34	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1777.7	1777.7	1777.7	1777.7	1777.7
2.5°	1782.3	1780.0	1774.6	1785.3	1784.6
5°	1776.9	1773.9	1760.1	1780.8	1780.8
7.5°	1769.3	1761.6	1762.4	1773.9	1768.5
10°	1759.3	1746.3	1748.6	1751.7	1751.7
12.5°	1736.4	1724.1	1718.0	1728.0	1731.0
15°	1708.1	1703.5	1702.0	1726.4	1705.8
17.5°	1668.3	1678.2	1669.1	1689.0	1692.0
20°	1627.0	1646.1	1644.6	1658.4	1653.8
22.5°	1593.2	1605.5	1605.5	1622.4	1636.2
25°	1559.6	1562.6	1558.8	1594.8	1588.6
27.5°	1516.0	1513.7	1525.9	1544.3	1556.5
30°	1454.0	1454.8	1471.6	1496.1	1507.6
32.5°	1397.4	1390.5	1411.2	1421.9	1409.6
35°	1326.2	1320.0	1320.8	1253.5	1213.7
37.5°	1229.0	1234.4	1164.0	1040.7	988.7
40°	1101.2	1111.9	971.9	880.1	850.9
42.5°	946.6	949.7	796.6	766.8	747.7
45°	771.4	805.0	671.2	662.7	635.2
47.5°	611.4	674.2	562.4	567.8	502.0
50°	497.4	560.2	488.2	490.5	391.8
52.5°	393.4	454.6	430.9	424.0	307.6
55°	303.8	363.5	371.9	368.8	240.3
57.5°	223.5	287.7	312.2	323.7	185.2
60°	163.8	234.9	258.7	281.6	140.1
62.5°	130.1	203.6	212.0	245.6	108.6
65°	114.0	187.5	168.4	212.8	85.7
67.5°	101.7	178.3	137.0	188.3	75.0
70°	91.8	160.7	118.6	168.4	71.1
72.5°	91.8	140.8	93.3	149.3	71.9
75°	83.4	120.1	64.3	126.3	71.9
77.5°	74.2	102.5	48.2	102.5	67.3
80°	64.3	80.3	39.8	78.8	60.4
82.5°	47.4	60.4	34.4	58.9	49.0
85°	30.6	49.7	35.2	42.8	34.4
87.5°	14.5	25.2	22.2	21.4	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)