

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: P213562

Luminaire Tested: **14GR-LD5-43-A19/156-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213562
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-LD5-43-A19/156-UNV-L930-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3325.0 lumens
Efficiency: N/A
Efficacy: 79.2 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

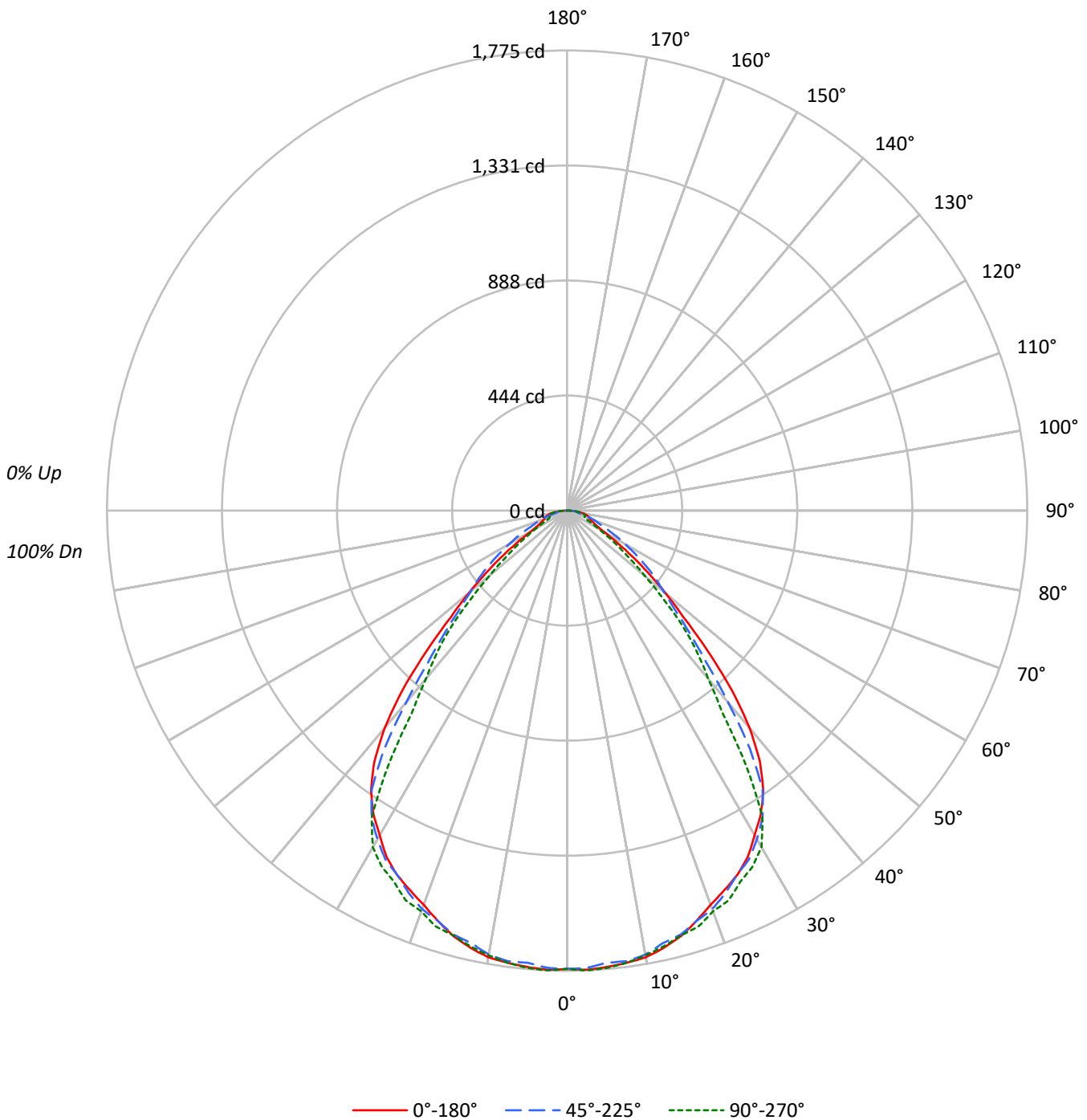
Input Watts (W): 42
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	5958	5958	5958
5°	5978	5921	5991
10°	5987	5951	5961
15°	5926	5905	5918
20°	5803	5865	5898
25°	5767	5764	5875
30°	5627	5695	5834
35°	5426	5404	4966
40°	4818	4252	3723
45°	3656	3181	3010
50°	2594	2546	2043
55°	1775	2173	1404
60°	1097	1734	939
65°	904	1335	679
70°	899	1162	698
75°	1081	832	931
80°	1240	768	1166
85°	1179	1353	1326



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	5.0
10°-20°	478.8	14.4
20°-30°	720.1	21.7
30°-40°	785.0	23.6
40°-50°	549.7	16.5
50°-60°	311.1	9.4
60°-70°	170.2	5.1
70°-80°	103.2	3.1
80°-90°	39.1	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°	1366.6	41.1
0°-40°	2151.6	64.7
0°-60°	3012.4	90.6
0°-90°	3325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3325.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1768	1768	1768	1768	1768	
5°	1767	1764	1751	1771	1771	168
15°	1699	1694	1693	1717	1696	478
25°	1551	1554	1550	1586	1580	712
35°	1319	1313	1314	1247	1207	813
45°	767	801	668	659	632	596
55°	302	362	370	367	239	276
65°	113	186	167	212	85	117
75°	83	120	64	126	72	86
85°	30	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°	1768.1	1768.1	1768.1	1768.1	1768.1
2.5°	1772.6	1770.4	1765.1	1775.7	1775.0
5°	1767.3	1764.2	1750.6	1771.1	1771.1
7.5°	1759.7	1752.1	1752.9	1764.2	1758.9
10°	1749.8	1736.9	1739.2	1742.3	1742.3
12.5°	1727.0	1714.8	1708.7	1718.6	1721.7
15°	1698.8	1694.3	1692.8	1717.1	1696.5
17.5°	1659.3	1669.1	1660.0	1679.8	1682.8
20°	1618.2	1637.2	1635.7	1649.4	1644.8
22.5°	1584.6	1596.8	1596.8	1613.6	1627.3
25°	1551.2	1554.3	1550.4	1586.2	1580.1
27.5°	1507.8	1505.5	1517.7	1535.9	1548.1
30°	1446.1	1446.9	1463.6	1488.0	1499.4
32.5°	1389.8	1382.9	1403.5	1414.2	1402.0
35°	1319.0	1313.0	1313.7	1246.7	1207.2
37.5°	1222.3	1227.7	1157.7	1035.1	983.4
40°	1095.3	1105.9	966.6	875.3	846.4
42.5°	941.6	944.5	792.3	762.7	743.6
45°	767.3	800.7	667.5	659.1	631.7
47.5°	608.1	670.6	559.4	564.7	499.3
50°	494.8	557.2	485.6	487.9	389.7
52.5°	391.2	452.1	428.5	421.6	305.9
55°	302.2	361.5	369.9	366.9	239.0
57.5°	222.3	286.2	310.5	322.0	184.2
60°	162.8	233.6	257.3	280.1	139.3
62.5°	129.4	202.4	210.8	244.4	108.1
65°	113.4	186.5	167.4	211.6	85.2
67.5°	101.3	177.4	136.2	187.2	74.6
70°	91.3	159.9	117.9	167.4	70.8
72.5°	91.3	140.0	92.9	148.4	71.5
75°	83.0	119.5	63.9	125.6	71.5
77.5°	73.9	102.0	48.0	102.0	67.0
80°	63.9	79.9	39.6	78.4	60.1
82.5°	47.2	60.1	34.3	58.6	48.7
85°	30.5	49.5	35.0	42.7	34.3
87.5°	14.4	25.1	22.1	21.3	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)