

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: P213625

Luminaire Tested: **14GR-LD5-43-A19/156-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213625
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-L950-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4182.4 lumens
Efficiency: N/A
Efficacy: 99.6 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

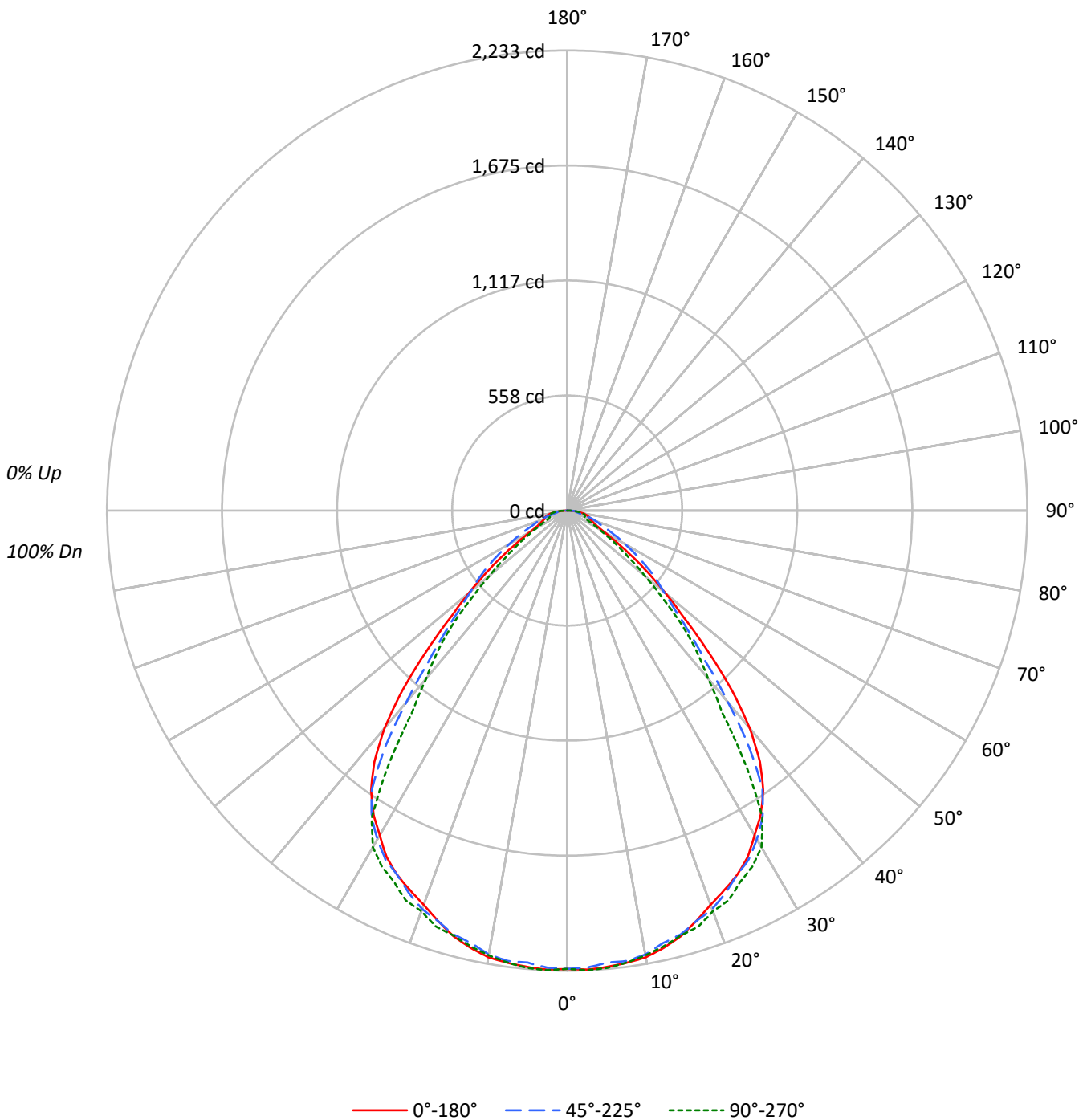
Input Watts (W): 42
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7494	7494	7494
5°	7519	7448	7536
10°	7531	7485	7498
15°	7454	7428	7444
20°	7299	7377	7419
25°	7254	7251	7389
30°	7077	7163	7339
35°	6825	6798	6246
40°	6060	5348	4683
45°	4599	4001	3787
50°	3262	3202	2570
55°	2233	2733	1767
60°	1380	2181	1181
65°	1138	1680	855
70°	1131	1462	877
75°	1359	1047	1172
80°	1560	966	1467
85°	1481	1701	1662



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.0	5.0
10°-20°	602.3	14.4
20°-30°	905.7	21.7
30°-40°	987.4	23.6
40°-50°	691.4	16.5
50°-60°	391.4	9.4
60°-70°	214.2	5.1
70°-80°	129.8	3.1
80°-90°	49.2	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°	1719.0	41.1
0°-40°	2706.5	64.7
0°-60°	3789.2	90.6
0°-90°	4182.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4182.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2224	2224	2224	2224	2224	
5°	2223	2219	2202	2228	2228	211
15°	2137	2131	2129	2160	2134	601
25°	1951	1955	1950	1995	1988	896
35°	1659	1652	1652	1568	1518	1022
45°	965	1007	840	829	795	750
55°	380	455	465	462	301	347
65°	143	235	211	266	107	147
75°	104	150	80	158	90	108
85°	38	62	44	54	43	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2224.0	2224.0	2224.0	2224.0	2224.0
2.5°	2229.8	2226.9	2220.2	2233.6	2232.6
5°	2223.0	2219.2	2202.0	2227.9	2227.9
7.5°	2213.5	2203.9	2204.8	2219.2	2212.5
10°	2201.0	2184.7	2187.6	2191.5	2191.5
12.5°	2172.4	2157.0	2149.3	2161.8	2165.6
15°	2136.9	2131.1	2129.2	2159.9	2134.0
17.5°	2087.1	2099.6	2088.1	2112.9	2116.8
20°	2035.4	2059.3	2057.4	2074.7	2068.9
22.5°	1993.3	2008.6	2008.6	2029.7	2046.9
25°	1951.1	1955.0	1950.2	1995.2	1987.5
27.5°	1896.6	1893.7	1909.0	1932.0	1947.3
30°	1819.0	1820.0	1841.0	1871.7	1886.1
32.5°	1748.2	1739.6	1765.4	1778.9	1763.5
35°	1659.1	1651.5	1652.5	1568.2	1518.4
37.5°	1537.5	1544.3	1456.2	1302.0	1237.0
40°	1377.6	1391.1	1215.9	1101.0	1064.6
42.5°	1184.3	1188.1	996.6	959.3	935.4
45°	965.1	1007.2	839.7	829.1	794.6
47.5°	764.9	843.5	703.7	710.3	628.1
50°	622.3	700.8	610.8	613.7	490.2
52.5°	492.1	568.7	539.0	530.4	384.8
55°	380.1	454.7	465.3	461.5	300.7
57.5°	279.6	360.0	390.6	405.0	231.7
60°	204.8	293.9	323.6	352.4	175.2
62.5°	162.8	254.7	265.2	307.3	136.0
65°	142.7	234.6	210.7	266.2	107.2
67.5°	127.3	223.0	171.4	235.5	93.8
70°	114.8	201.0	148.4	210.7	89.0
72.5°	114.8	176.2	116.8	186.7	90.0
75°	104.4	150.3	80.4	158.0	90.0
77.5°	92.9	128.3	60.3	128.3	84.3
80°	80.4	100.6	49.8	98.6	75.6
82.5°	59.3	75.6	43.0	73.7	61.2
85°	38.3	62.2	44.0	53.6	43.0
87.5°	18.2	31.6	27.8	26.8	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)