

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: P257189

Luminaire Tested: **22GR-LD5-43-F125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P257189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35595)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-43-F125-UNV-L940-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH F125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3749.7 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.18 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

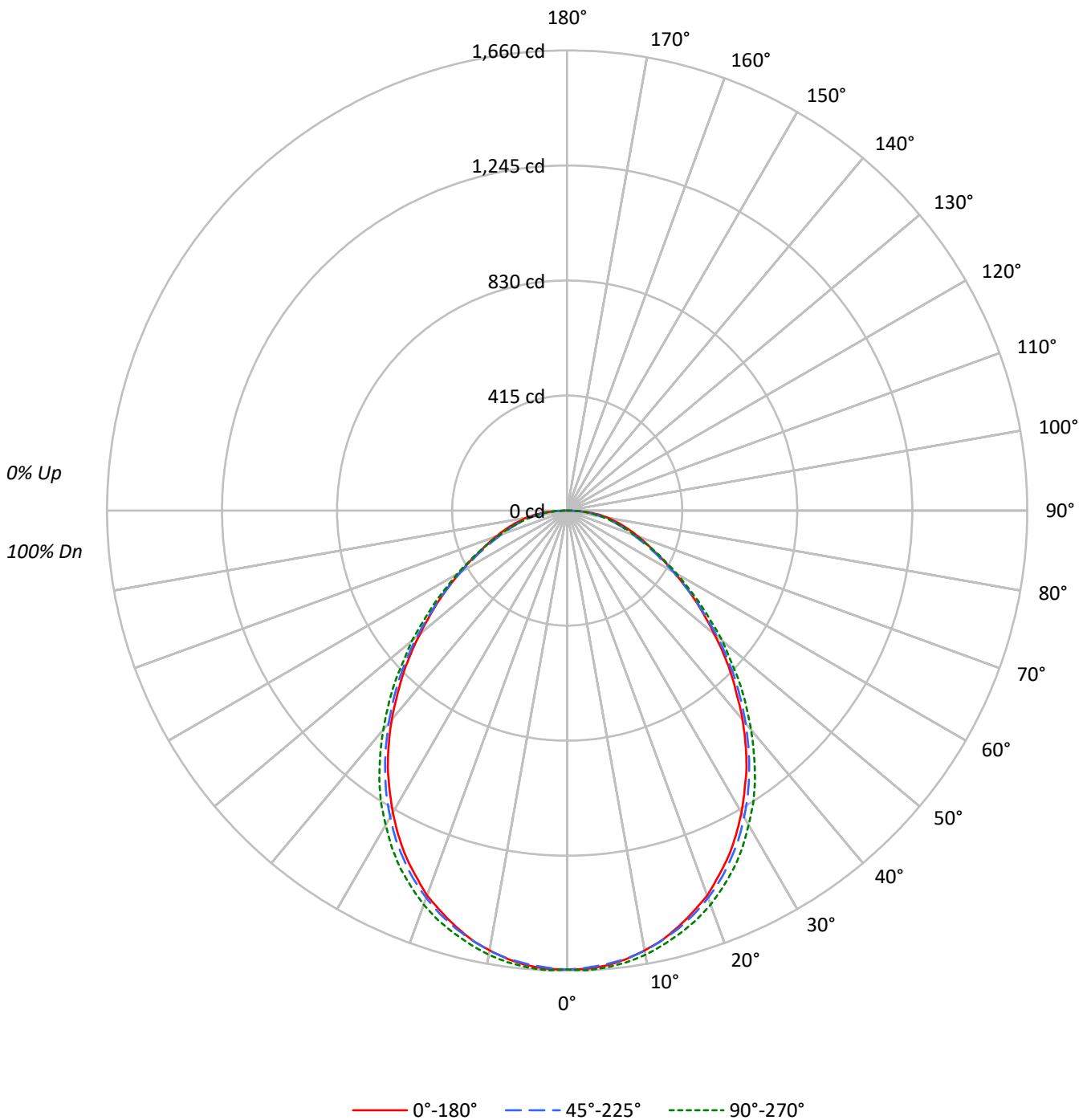
Input Watts (W): 40.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P257189

CATALOG NUMBER: 22GR-LD5-43-F125-UNV-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P257189

CATALOG NUMBER: 22GR-LD5-43-F125-UNV-L940-CD1-U

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	39	38
8	63	50	42	36	62	49	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5302	5302	5302
5°	5294	5281	5317
10°	5238	5244	5291
15°	5150	5169	5232
20°	5035	5067	5155
25°	4865	4920	5029
30°	4653	4723	4840
35°	4411	4475	4619
40°	4117	4185	4314
45°	3798	3871	3988
50°	3454	3518	3642
55°	3140	3164	3260
60°	2848	2826	2930
65°	2620	2548	2652
70°	2545	2360	2448
75°	2575	2309	2341
80°	2744	2362	2396
85°	3035	2528	2495



TEST NUMBER: P257189

CATALOG NUMBER: 22GR-LD5-43-F125-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	4.2
10°-20°	440.1	11.7
20°-30°	641.6	17.1
30°-40°	717.2	19.1
40°-50°	659.6	17.6
50°-60°	511.0	13.6
60°-70°	342.5	9.1
70°-80°	204.9	5.5
80°-90°	76.6	2.0
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°	1237.8	33.0
0°-40°	1955.0	52.1
0°-60°	3125.6	83.4
0°-90°	3749.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3749.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1656	1656	1656	1656	1656	
5°	1647	1644	1643	1650	1654	156
15°	1553	1555	1559	1571	1578	437
25°	1377	1380	1392	1412	1423	632
35°	1128	1130	1145	1167	1182	703
45°	838	841	855	868	881	646
55°	562	563	567	575	584	505
65°	346	343	336	340	350	348
75°	208	200	187	185	189	221
85°	83	83	69	64	68	86
90°	0	0	0	0	0	



TEST NUMBER: P257189

CATALOG NUMBER: 22GR-LD5-43-F125-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1655.5	1655.5	1655.5	1655.5	1655.5
2.5°	1654.6	1651.2	1650.3	1655.5	1659.8
5°	1646.9	1643.5	1642.6	1649.5	1653.8
7.5°	1632.3	1629.7	1630.6	1637.4	1643.5
10°	1610.8	1609.9	1612.5	1621.1	1627.1
12.5°	1586.7	1585.0	1587.6	1598.7	1604.8
15°	1553.2	1554.9	1559.2	1571.2	1578.1
17.5°	1516.2	1517.9	1525.6	1537.7	1548.9
20°	1477.5	1476.6	1486.9	1503.3	1512.7
22.5°	1426.7	1431.0	1443.1	1460.3	1469.7
25°	1376.9	1380.3	1392.3	1412.1	1423.3
27.5°	1319.2	1325.3	1338.2	1357.1	1370.0
30°	1258.2	1263.3	1277.1	1298.6	1308.9
32.5°	1192.0	1198.8	1213.5	1236.7	1249.6
35°	1128.3	1130.0	1144.7	1167.0	1181.6
37.5°	1056.1	1060.4	1074.1	1099.1	1106.8
40°	984.7	988.1	1001.0	1021.7	1032.0
42.5°	908.2	914.2	927.9	943.4	955.5
45°	838.5	841.1	854.8	867.7	880.6
47.5°	765.4	768.0	780.0	793.8	798.9
50°	693.2	696.6	706.1	719.8	731.0
52.5°	626.1	627.8	632.1	647.6	652.7
55°	562.4	563.3	566.7	575.3	583.9
57.5°	502.2	501.4	500.5	508.3	516.0
60°	444.6	442.9	441.2	447.2	457.5
62.5°	393.9	392.2	385.3	392.2	400.8
65°	345.7	343.1	336.3	339.7	350.0
67.5°	307.9	302.7	291.5	295.8	303.6
70°	271.8	264.9	252.0	255.4	261.4
72.5°	239.9	229.6	218.4	219.3	225.3
75°	208.1	199.5	186.6	184.9	189.2
77.5°	178.0	171.1	157.4	154.8	158.2
80°	148.8	141.9	128.1	123.0	129.9
82.5°	117.0	114.4	98.9	95.5	98.0
85°	82.6	83.4	68.8	64.5	67.9
87.5°	42.1	43.9	35.3	34.4	34.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)