

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: P225785

Luminaire Tested: **22GR-LD5-32-A-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225785
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-32-A-UNV-L940-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2849.2 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

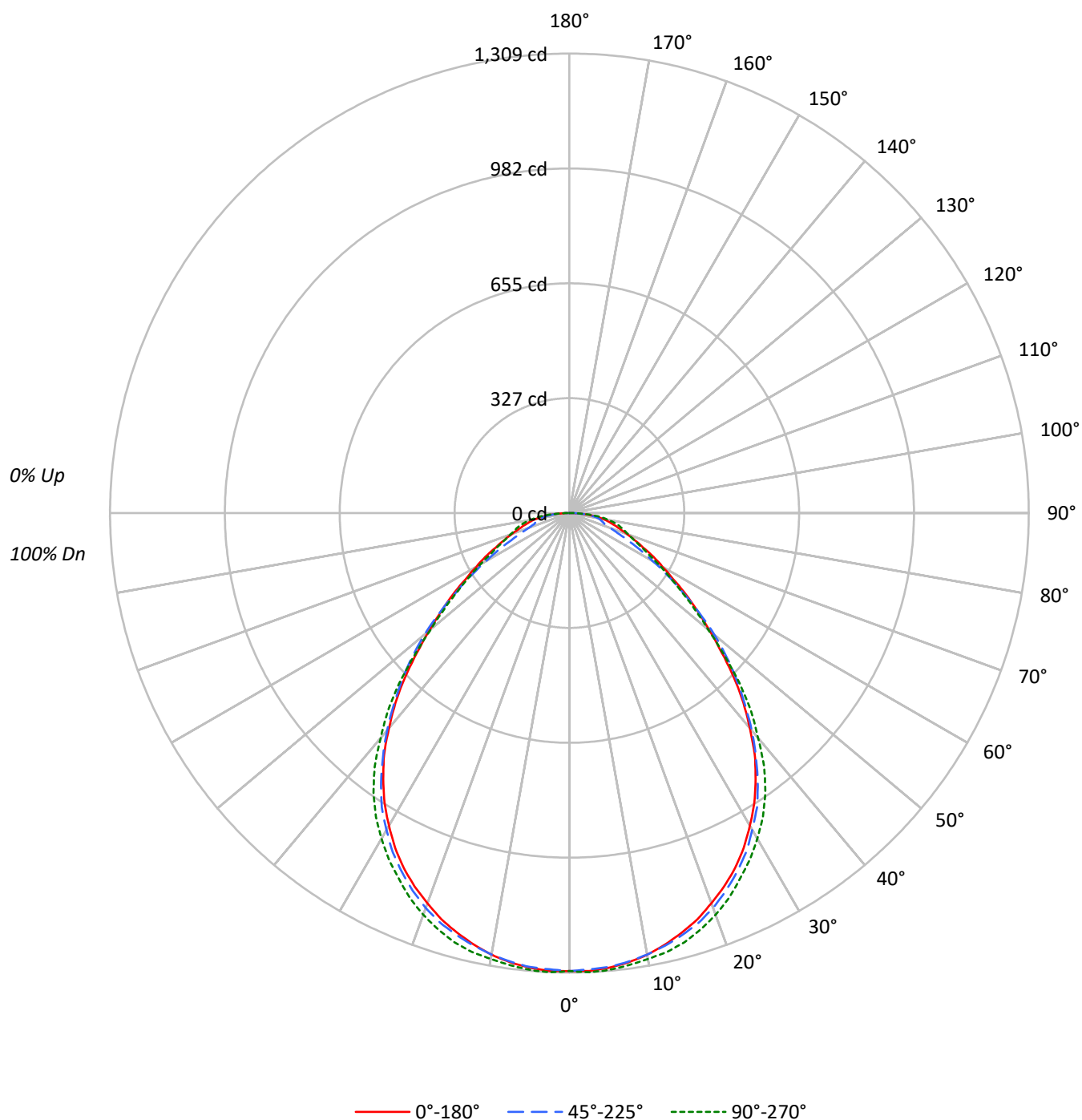
Input Watts (W): 29.95
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225785

CATALOG NUMBER: 22GR-LD5-32-A-UNV-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P225785

CATALOG NUMBER: 22GR-LD5-32-A-UNV-L940-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74		
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64		
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56		
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49		
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44		
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39		
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36		
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32		
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4179	4179	4179
5°	4179	4173	4199
10°	4155	4153	4194
15°	4102	4124	4196
20°	4031	4079	4151
25°	3945	3990	4062
30°	3803	3854	3960
35°	3616	3657	3805
40°	3343	3379	3498
45°	3003	3057	3105
50°	2597	2689	2570
55°	2265	2207	2176
60°	1962	1766	1886
65°	1753	1387	1693
70°	1626	1148	1670
75°	1623	1214	1854
80°	1796	1529	2090
85°	1878	1657	2363



TEST NUMBER: P225785

CATALOG NUMBER: 22GR-LD5-32-A-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.5	4.3
10°-20°	351.7	12.3
20°-30°	520.1	18.3
30°-40°	586.9	20.6
40°-50°	517.4	18.2
50°-60°	354.9	12.5
60°-70°	209.4	7.4
70°-80°	130.7	4.6
80°-90°	54.5	1.9
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°	995.3	34.9
0°-40°	1582.2	55.5
0°-60°	2454.5	86.1
0°-90°	2849.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2849.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1305	1305	1305	1305	1305	
5°	1300	1298	1298	1303	1306	123
15°	1237	1238	1244	1259	1266	349
25°	1116	1120	1129	1144	1150	513
35°	925	933	936	958	973	576
45°	663	666	675	679	686	509
55°	406	396	395	382	390	364
65°	231	204	183	212	223	233
75°	131	118	98	137	150	141
85°	51	48	45	59	64	55
90°	0	0	0	0	0	



TEST NUMBER: P225785

CATALOG NUMBER: 22GR-LD5-32-A-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1304.8	1304.8	1304.8	1304.8	1304.8
2.5°	1305.5	1302.2	1300.8	1306.2	1309.4
5°	1300.1	1297.6	1298.2	1302.8	1306.2
7.5°	1290.9	1288.9	1288.9	1295.5	1298.9
10°	1277.6	1277.0	1277.0	1284.9	1289.6
12.5°	1259.0	1259.7	1262.4	1273.0	1281.0
15°	1237.2	1238.5	1243.8	1259.0	1265.7
17.5°	1213.3	1213.3	1224.0	1235.9	1243.8
20°	1182.8	1184.8	1196.8	1210.0	1217.9
22.5°	1151.6	1155.0	1165.0	1180.2	1187.5
25°	1116.5	1120.5	1129.1	1143.7	1149.6
27.5°	1075.4	1080.8	1090.0	1100.6	1113.2
30°	1028.3	1036.3	1042.2	1056.9	1070.8
32.5°	980.6	987.9	994.5	1009.8	1025.7
35°	924.9	932.8	935.5	958.0	973.3
37.5°	867.9	871.2	872.6	895.1	911.7
40°	799.6	806.2	808.2	826.1	836.7
42.5°	733.9	736.6	740.6	753.9	766.4
45°	663.1	666.3	674.9	679.0	685.6
47.5°	588.8	598.7	608.6	596.1	596.8
50°	521.2	529.1	539.7	515.8	515.8
52.5°	460.8	464.7	465.4	445.6	449.5
55°	405.7	395.9	395.2	381.9	389.8
57.5°	350.7	337.5	332.8	328.9	338.2
60°	306.3	282.4	275.8	281.8	294.4
62.5°	269.9	239.3	226.8	242.0	253.3
65°	231.4	203.6	183.0	211.5	223.4
67.5°	201.6	175.0	148.5	188.9	197.5
70°	173.7	153.2	122.6	171.7	178.4
72.5°	151.2	135.3	106.1	155.1	163.1
75°	131.2	118.0	98.1	137.3	149.8
77.5°	115.3	100.8	91.5	118.7	133.9
80°	97.4	82.9	82.9	99.4	113.3
82.5°	76.9	65.0	67.0	80.9	90.8
85°	51.1	47.7	45.1	59.0	64.3
87.5°	25.9	26.5	23.9	30.5	31.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)