

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: P292246

Luminaire Tested: **22GR-LD5-36-A-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-36-A-UNV-L93050-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3369.0 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

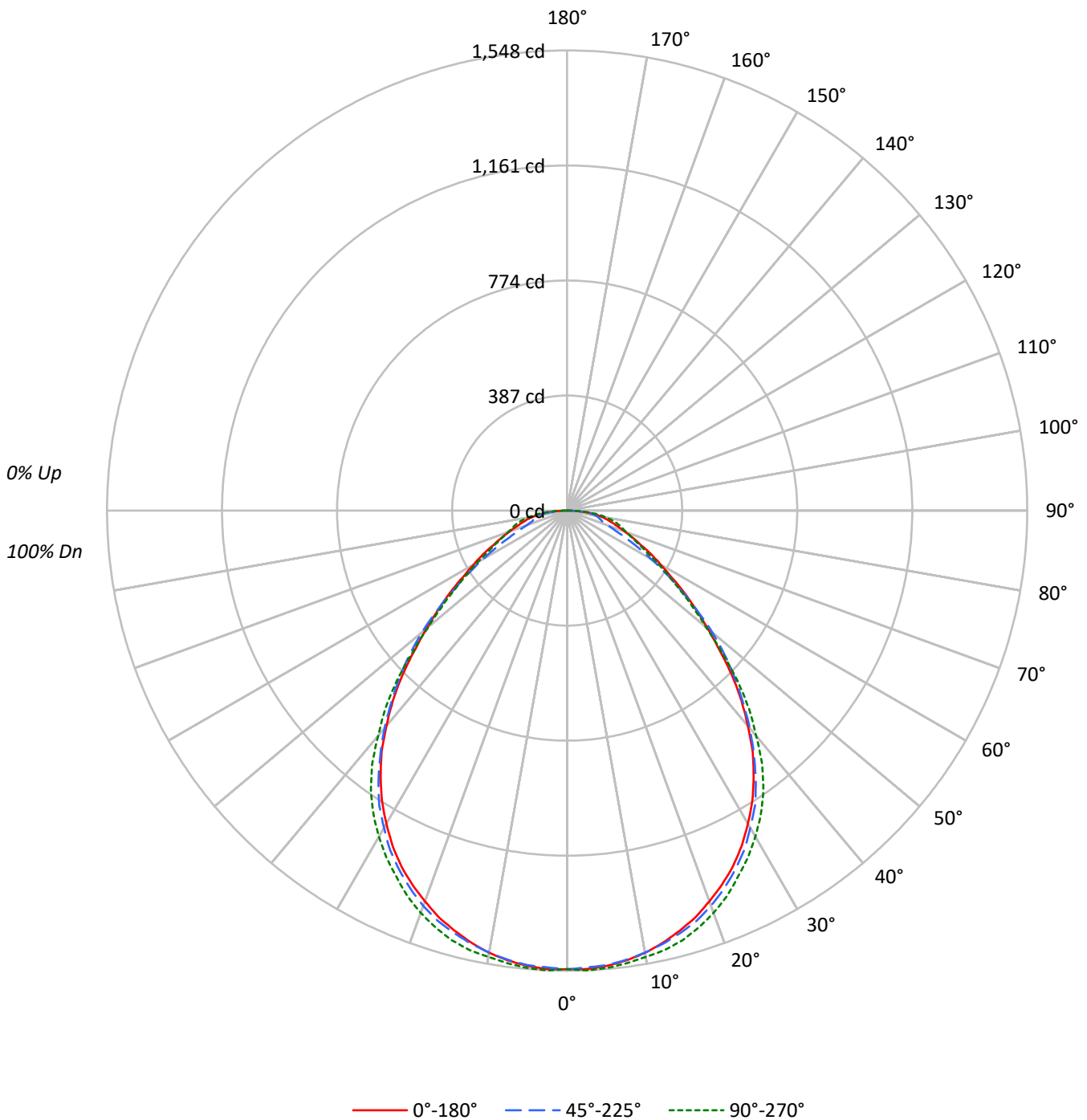
Input Watts (W): 29.295
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4152	4152	4152
5°	4153	4146	4172
10°	4128	4126	4167
15°	4076	4098	4169
20°	4005	4052	4124
25°	3920	3964	4036
30°	3778	3829	3934
35°	3593	3634	3781
40°	3321	3357	3476
45°	2984	3037	3085
50°	2580	2672	2553
55°	2251	2192	2163
60°	1949	1755	1873
65°	1742	1378	1682
70°	1616	1141	1659
75°	1614	1206	1842
80°	1785	1519	2078
85°	1865	1646	2347



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.0	4.3
10°-20°	415.8	12.3
20°-30°	615.0	18.3
30°-40°	694.0	20.6
40°-50°	611.8	18.2
50°-60°	419.7	12.5
60°-70°	247.7	7.4
70°-80°	154.5	4.6
80°-90°	64.4	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°	1176.9	34.9
0°-40°	1870.9	55.5
0°-60°	2902.4	86.1
0°-90°	3369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3369.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1543	1543	1543	1543	1543	
5°	1537	1534	1535	1540	1544	146
15°	1463	1464	1471	1489	1497	412
25°	1320	1325	1335	1352	1359	606
35°	1094	1103	1106	1133	1151	681
45°	784	788	798	803	811	602
55°	480	468	467	452	461	430
65°	274	241	216	250	264	276
75°	155	140	116	162	177	166
85°	60	56	53	70	76	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1542.9	1542.9	1542.9	1542.9	1542.9
2.5°	1543.7	1539.7	1538.2	1544.4	1548.4
5°	1537.4	1534.3	1535.0	1540.5	1544.4
7.5°	1526.4	1524.1	1524.1	1531.9	1535.8
10°	1510.7	1510.0	1510.0	1519.4	1524.8
12.5°	1488.8	1489.6	1492.7	1505.2	1514.7
15°	1462.9	1464.5	1470.8	1488.8	1496.6
17.5°	1434.7	1434.7	1447.2	1461.3	1470.8
20°	1398.6	1401.0	1415.1	1430.8	1440.2
22.5°	1361.8	1365.7	1377.5	1395.5	1404.1
25°	1320.2	1324.9	1335.1	1352.4	1359.4
27.5°	1271.6	1277.9	1288.9	1301.4	1316.3
30°	1216.0	1225.4	1232.4	1249.7	1266.1
32.5°	1159.5	1168.1	1176.0	1194.0	1212.8
35°	1093.7	1103.1	1106.2	1132.9	1150.9
37.5°	1026.2	1030.2	1031.7	1058.4	1078.0
40°	945.5	953.3	955.7	976.8	989.4
42.5°	867.9	871.0	875.7	891.4	906.3
45°	784.0	787.9	798.1	802.8	810.6
47.5°	696.2	707.9	719.7	704.8	705.6
50°	616.2	625.6	638.2	609.9	609.9
52.5°	544.9	549.6	550.4	526.8	531.5
55°	479.8	468.0	467.3	451.6	461.0
57.5°	414.7	399.0	393.6	388.9	399.8
60°	362.2	334.0	326.1	333.2	348.1
62.5°	319.1	283.0	268.1	286.2	299.5
65°	273.6	240.7	216.4	250.1	264.2
67.5°	238.3	207.0	175.6	223.4	233.6
70°	205.4	181.1	145.0	203.1	210.9
72.5°	178.7	159.9	125.4	183.5	192.9
75°	155.2	139.5	116.0	162.3	177.2
77.5°	136.4	119.2	108.2	140.3	158.4
80°	115.2	98.0	98.0	117.6	134.1
82.5°	90.9	76.8	79.2	95.6	107.4
85°	60.4	56.4	53.3	69.8	76.0
87.5°	30.6	31.4	28.2	36.1	36.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)