

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: P292183

Luminaire Tested: **22GR-LD5-28-A-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292183
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-LD5-28-A-UNV-L82765-W2A1-U-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2995.0 lumens
Efficiency: N/A
Efficacy: 132.5 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

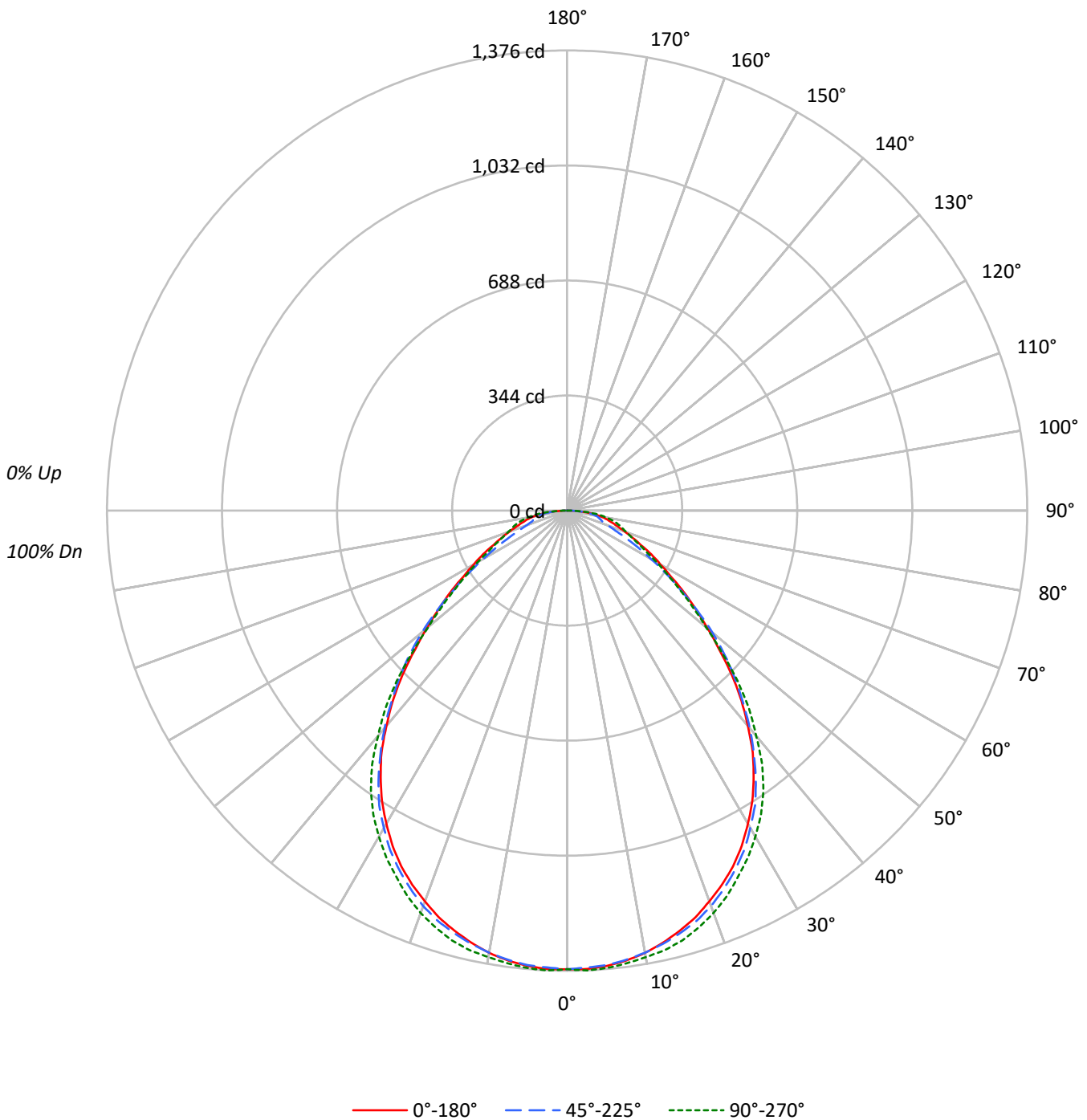
Input Watts (W): 22.599
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3691	3691	3691
5°	3692	3686	3709
10°	3670	3668	3704
15°	3623	3643	3707
20°	3561	3603	3666
25°	3485	3524	3588
30°	3359	3404	3498
35°	3194	3231	3361
40°	2953	2984	3090
45°	2653	2700	2742
50°	2293	2375	2270
55°	2001	1949	1923
60°	1733	1560	1665
65°	1549	1225	1496
70°	1437	1014	1475
75°	1435	1072	1638
80°	1588	1350	1847
85°	1658	1463	2087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.8	4.3
10°-20°	369.7	12.3
20°-30°	546.7	18.3
30°-40°	617.0	20.6
40°-50°	543.9	18.2
50°-60°	373.1	12.5
60°-70°	220.2	7.4
70°-80°	137.4	4.6
80°-90°	57.3	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°	1046.2	34.9
0°-40°	1663.2	55.5
0°-60°	2580.2	86.1
0°-90°	2995.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2995.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1372	1372	1372	1372	1372	
5°	1367	1364	1365	1370	1373	130
15°	1300	1302	1308	1324	1330	367
25°	1174	1178	1187	1202	1208	539
35°	972	981	983	1007	1023	606
45°	697	700	710	714	721	535
55°	426	416	415	401	410	383
65°	243	214	192	222	235	245
75°	138	124	103	144	158	148
85°	54	50	47	62	68	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1371.6	1371.6	1371.6	1371.6	1371.6
2.5°	1372.3	1368.8	1367.4	1373.0	1376.5
5°	1366.7	1363.9	1364.6	1369.5	1373.0
7.5°	1357.0	1354.9	1354.9	1361.8	1365.3
10°	1343.0	1342.3	1342.3	1350.7	1355.6
12.5°	1323.5	1324.2	1327.0	1338.1	1346.5
15°	1300.5	1301.9	1307.5	1323.5	1330.5
17.5°	1275.4	1275.4	1286.6	1299.1	1307.5
20°	1243.4	1245.5	1258.0	1271.9	1280.3
22.5°	1210.6	1214.1	1224.5	1240.6	1248.2
25°	1173.7	1177.8	1186.9	1202.2	1208.5
27.5°	1130.5	1136.0	1145.8	1156.9	1170.2
30°	1081.0	1089.3	1095.6	1110.9	1125.6
32.5°	1030.8	1038.5	1045.4	1061.5	1078.2
35°	972.2	980.6	983.4	1007.1	1023.1
37.5°	912.3	915.8	917.2	940.9	958.3
40°	840.5	847.5	849.6	868.4	879.6
42.5°	771.5	774.3	778.5	792.4	805.7
45°	697.0	700.4	709.5	713.7	720.6
47.5°	618.9	629.3	639.8	626.6	627.3
50°	547.8	556.2	567.3	542.2	542.2
52.5°	484.4	488.6	489.3	468.4	472.5
55°	426.5	416.1	415.4	401.4	409.8
57.5°	368.7	354.7	349.9	345.7	355.4
60°	322.0	296.9	289.9	296.2	309.4
62.5°	283.7	251.6	238.4	254.4	266.2
65°	243.2	214.0	192.4	222.3	234.9
67.5°	211.9	184.0	156.1	198.6	207.7
70°	182.6	161.0	128.9	180.5	187.5
72.5°	158.9	142.2	111.5	163.1	171.5
75°	138.0	124.1	103.1	144.3	157.5
77.5°	121.3	105.9	96.2	124.8	140.8
80°	102.5	87.1	87.1	104.5	119.2
82.5°	80.8	68.3	70.4	85.0	95.5
85°	53.7	50.2	47.4	62.0	67.6
87.5°	27.2	27.9	25.1	32.1	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)