

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: P291941

Luminaire Tested: **22GR-LD5-28-F125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291941
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-F125-UNV-L83050-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3064.0 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

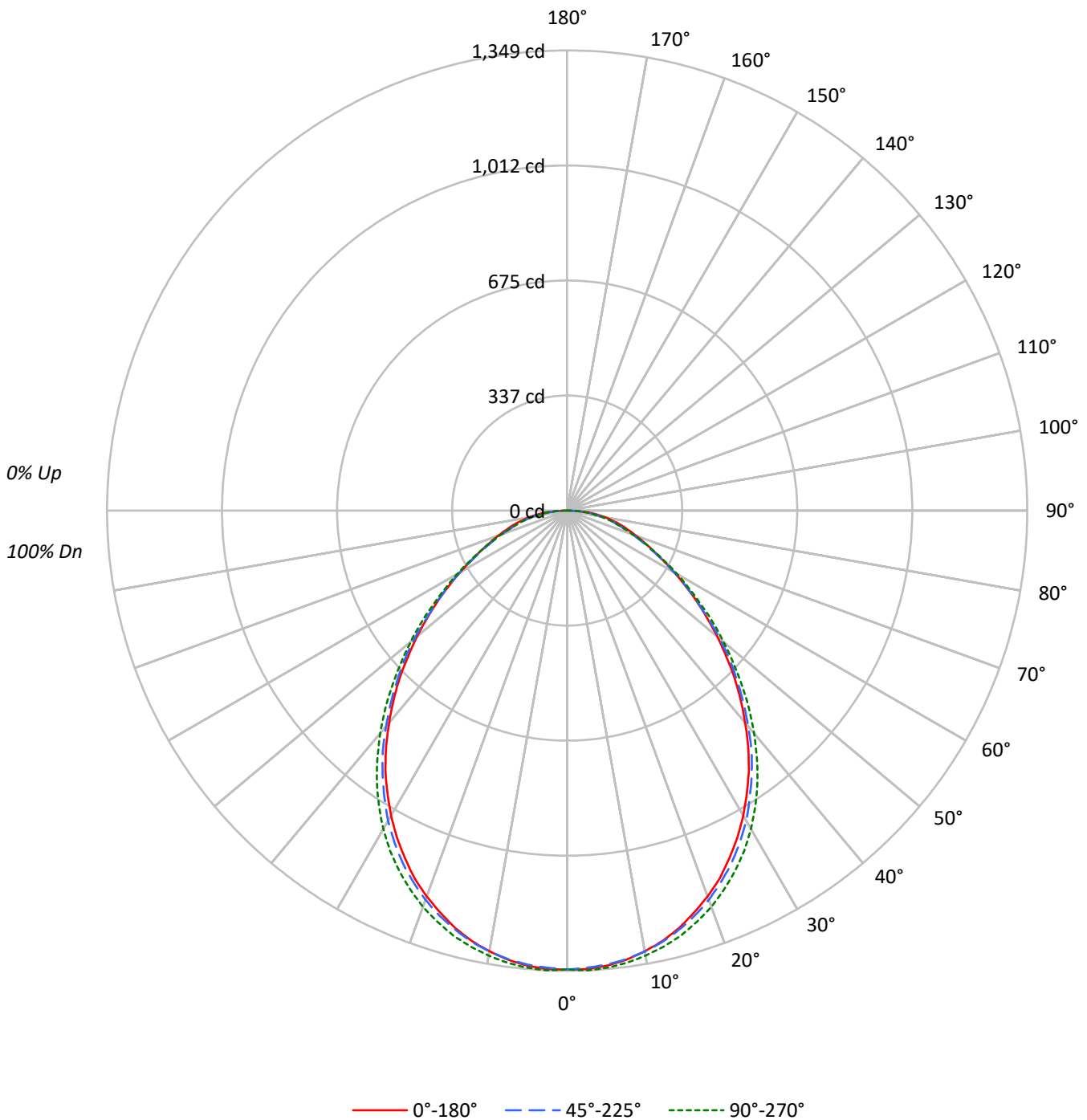
Input Watts (W): 22.506
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	99	96	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	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	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°	3620	3620	3620
5°	3618	3609	3633
10°	3584	3586	3619
15°	3529	3541	3593
20°	3447	3477	3540
25°	3339	3386	3460
30°	3208	3263	3349
35°	3050	3099	3195
40°	2852	2899	2994
45°	2641	2681	2760
50°	2405	2444	2506
55°	2171	2178	2242
60°	1948	1955	2001
65°	1775	1738	1779
70°	1689	1594	1622
75°	1700	1538	1545
80°	1764	1553	1542
85°	1933	1646	1559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	4.1
10°-20°	359.0	11.7
20°-30°	525.4	17.1
30°-40°	590.8	19.3
40°-50°	544.8	17.8
50°-60°	419.9	13.7
60°-70°	277.1	9.0
70°-80°	161.3	5.3
80°-90°	58.7	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°	1011.5	33.0
0°-40°	1602.2	52.3
0°-60°	2566.9	83.8
0°-90°	3064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3064.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1345	1345	1345	1345	1345	
5°	1339	1337	1336	1342	1345	127
15°	1267	1267	1271	1282	1290	357
25°	1125	1130	1140	1156	1165	517
35°	928	933	943	963	973	579
45°	694	695	704	719	725	534
55°	463	462	464	472	478	415
65°	279	277	273	275	279	280
75°	164	156	148	145	149	172
85°	63	62	53	49	50	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1345.1	1345.1	1345.1	1345.1	1345.1
2.5°	1345.1	1342.3	1341.6	1346.5	1349.4
5°	1339.4	1336.6	1335.9	1342.3	1345.1
7.5°	1328.0	1325.9	1326.6	1333.7	1337.3
10°	1311.7	1311.0	1312.4	1320.2	1324.5
12.5°	1292.5	1291.8	1294.6	1303.2	1308.9
15°	1266.9	1266.9	1271.2	1282.5	1289.7
17.5°	1236.3	1238.5	1244.9	1256.2	1264.1
20°	1203.6	1205.8	1214.3	1227.1	1236.3
22.5°	1167.4	1170.2	1178.7	1194.4	1202.2
25°	1124.7	1130.4	1140.4	1156.0	1165.2
27.5°	1080.6	1087.0	1096.3	1115.5	1124.0
30°	1032.3	1036.6	1050.1	1067.8	1077.8
32.5°	981.1	985.4	996.7	1018.1	1026.6
35°	928.5	932.8	943.4	962.6	972.6
37.5°	871.6	875.2	888.0	902.9	913.6
40°	811.9	816.9	825.4	843.2	852.4
42.5°	753.6	755.7	765.0	782.8	789.9
45°	693.9	694.6	704.5	718.8	725.2
47.5°	632.0	633.5	645.5	654.1	660.5
50°	574.4	575.2	583.7	591.5	598.6
52.5°	516.9	516.9	521.1	529.7	538.9
55°	462.8	462.1	464.2	472.1	477.8
57.5°	411.6	410.9	413.8	418.7	423.0
60°	361.9	360.4	363.3	366.1	371.8
62.5°	317.8	319.2	315.7	319.9	324.2
65°	278.7	277.3	273.0	275.1	279.4
67.5°	245.3	243.1	236.0	237.5	242.4
70°	214.7	210.4	202.6	202.6	206.2
72.5°	187.0	182.7	172.8	173.5	174.9
75°	163.5	156.4	147.9	145.0	148.6
77.5°	137.9	132.2	124.4	122.3	123.7
80°	113.8	109.5	100.2	97.4	99.5
82.5°	90.3	86.7	76.1	73.9	74.6
85°	62.6	61.9	53.3	49.1	50.5
87.5°	33.4	34.1	27.7	24.9	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)