

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: P291981

Luminaire Tested: **22GR-LD5-24-F125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291981
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-LD5-24-F125-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2550.0 lumens
Efficiency: N/A
Efficacy: 134.4 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

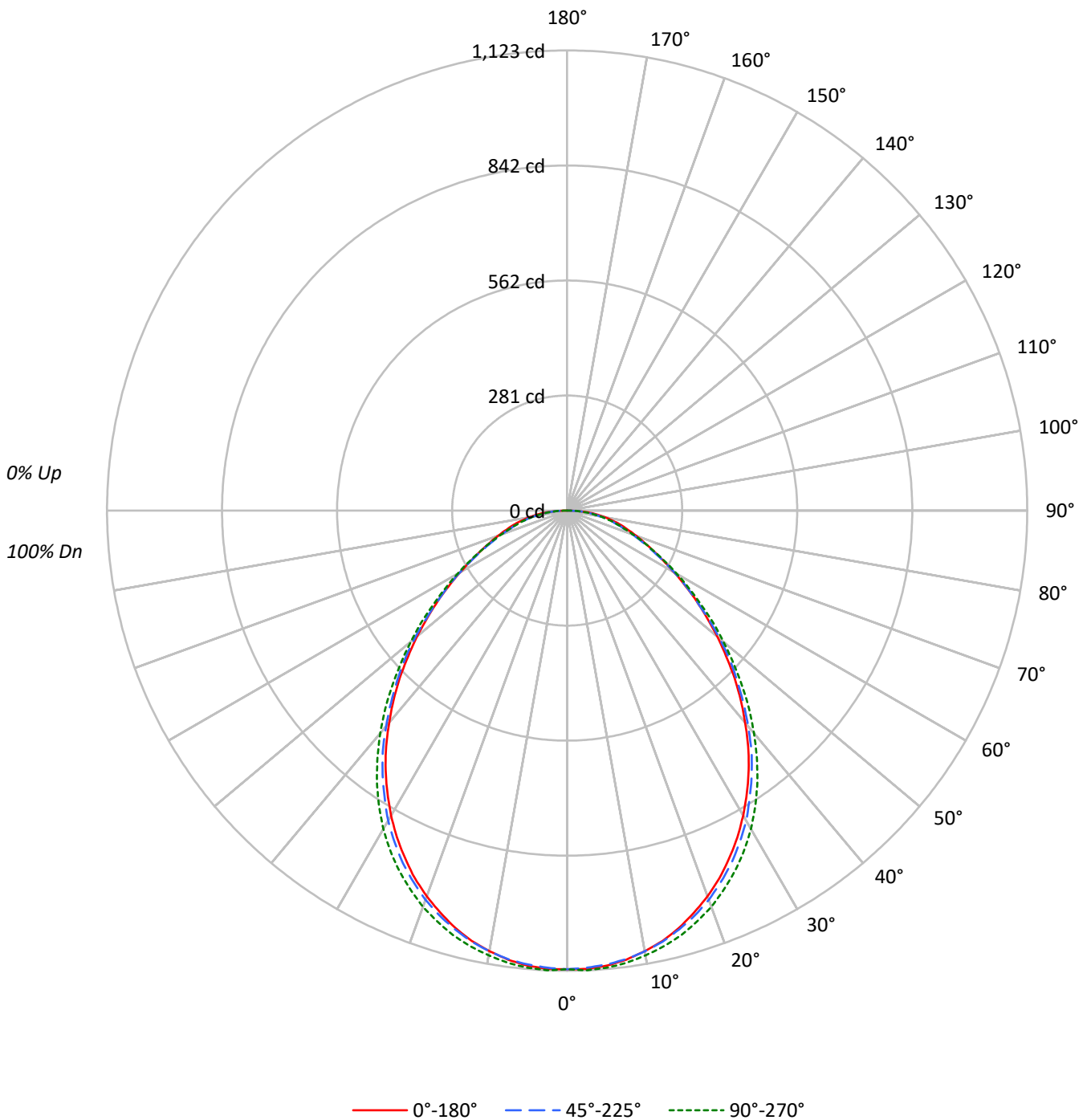
Input Watts (W): 18.972
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3013	3013	3013
5°	3011	3003	3024
10°	2983	2984	3012
15°	2937	2947	2990
20°	2869	2894	2946
25°	2779	2818	2879
30°	2669	2715	2787
35°	2538	2579	2659
40°	2374	2413	2492
45°	2198	2232	2297
50°	2002	2034	2086
55°	1807	1813	1865
60°	1621	1627	1665
65°	1477	1447	1480
70°	1406	1327	1350
75°	1415	1280	1286
80°	1468	1292	1283
85°	1609	1371	1297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.8	4.1
10°-20°	298.8	11.7
20°-30°	437.3	17.1
30°-40°	491.6	19.3
40°-50°	453.4	17.8
50°-60°	349.5	13.7
60°-70°	230.6	9.0
70°-80°	134.2	5.3
80°-90°	48.9	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°	841.8	33.0
0°-40°	1333.5	52.3
0°-60°	2136.3	83.8
0°-90°	2550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2550.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1120	1120	1120	1120	1120	
5°	1115	1112	1112	1117	1120	106
15°	1054	1054	1058	1067	1073	297
25°	936	941	949	962	970	431
35°	773	776	785	801	809	482
45°	578	578	586	598	604	445
55°	385	385	386	393	398	346
65°	232	231	227	229	232	233
75°	136	130	123	121	124	143
85°	52	52	44	41	42	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1119.5	1119.5	1119.5	1119.5	1119.5
2.5°	1119.5	1117.1	1116.5	1120.6	1123.0
5°	1114.7	1112.4	1111.8	1117.1	1119.5
7.5°	1105.3	1103.5	1104.1	1110.0	1113.0
10°	1091.7	1091.1	1092.2	1098.8	1102.3
12.5°	1075.7	1075.1	1077.5	1084.6	1089.3
15°	1054.4	1054.4	1057.9	1067.4	1073.3
17.5°	1028.9	1030.7	1036.0	1045.5	1052.0
20°	1001.7	1003.5	1010.6	1021.2	1028.9
22.5°	971.5	973.9	981.0	994.0	1000.5
25°	936.0	940.8	949.1	962.1	969.8
27.5°	899.4	904.7	912.4	928.3	935.4
30°	859.1	862.7	873.9	888.7	897.0
32.5°	816.5	820.1	829.5	847.3	854.4
35°	772.7	776.3	785.2	801.1	809.4
37.5°	725.4	728.4	739.0	751.4	760.3
40°	675.7	679.8	686.9	701.7	709.4
42.5°	627.2	629.0	636.6	651.4	657.4
45°	577.5	578.1	586.4	598.2	603.5
47.5°	526.0	527.2	537.2	544.3	549.7
50°	478.1	478.7	485.8	492.3	498.2
52.5°	430.2	430.2	433.7	440.8	448.5
55°	385.2	384.6	386.4	392.9	397.6
57.5°	342.6	342.0	344.4	348.5	352.1
60°	301.2	300.0	302.3	304.7	309.4
62.5°	264.5	265.7	262.7	266.3	269.8
65°	231.9	230.8	227.2	229.0	232.5
67.5°	204.1	202.4	196.4	197.6	201.8
70°	178.7	175.1	168.6	168.6	171.6
72.5°	155.6	152.1	143.8	144.4	145.6
75°	136.1	130.2	123.1	120.7	123.7
77.5°	114.8	110.1	103.5	101.8	103.0
80°	94.7	91.1	83.4	81.1	82.8
82.5°	75.1	72.2	63.3	61.5	62.1
85°	52.1	51.5	44.4	40.8	42.0
87.5°	27.8	28.4	23.1	20.7	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)