

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: P292432

Luminaire Tested: **22GR-LD5-28-A125-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-A125-UNV-L93050-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2712.0 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

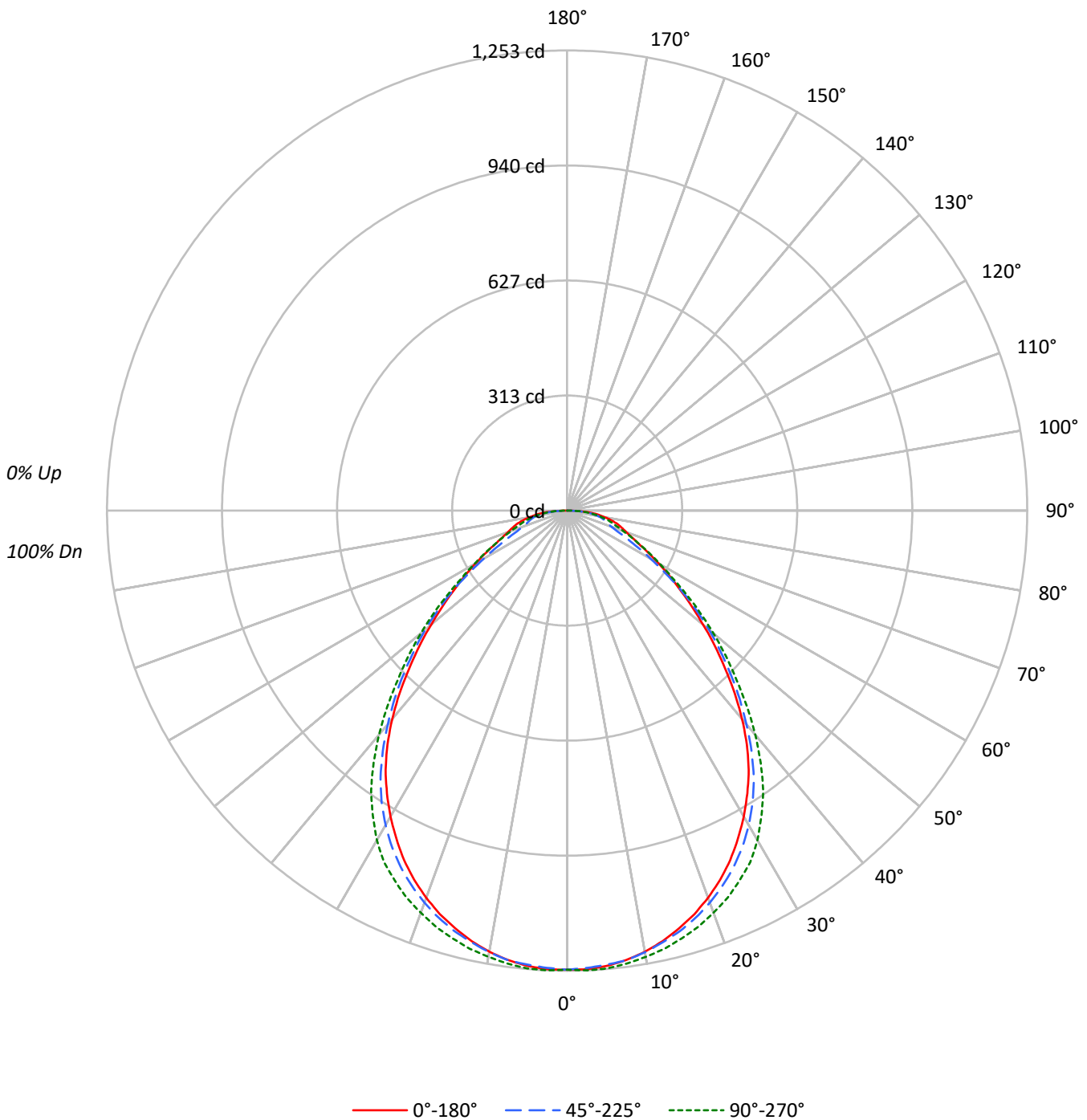
Input Watts (W): 22.971
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	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	52	46	41	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	34	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	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3364	3364	3364
5°	3361	3353	3380
10°	3333	3336	3371
15°	3280	3303	3359
20°	3212	3254	3337
25°	3119	3182	3299
30°	2989	3073	3220
35°	2831	2910	3058
40°	2603	2668	2801
45°	2313	2397	2484
50°	2020	2112	2176
55°	1756	1780	1845
60°	1545	1415	1576
65°	1373	1131	1381
70°	1349	1005	1274
75°	1472	1104	1302
80°	1616	1313	1392
85°	1933	1522	1562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.1	4.4
10°-20°	335.0	12.4
20°-30°	494.6	18.2
30°-40°	553.5	20.4
40°-50°	486.0	17.9
50°-60°	343.9	12.7
60°-70°	200.2	7.4
70°-80°	124.8	4.6
80°-90°	55.8	2.1
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°	947.8	34.9
0°-40°	1501.3	55.4
0°-60°	2331.2	86.0
0°-90°	2712.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2712.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1250	1250	1250	1250	1250	
5°	1244	1241	1241	1248	1251	118
15°	1177	1180	1186	1198	1206	332
25°	1050	1055	1072	1097	1111	482
35°	862	866	886	912	931	536
45°	608	615	630	645	653	470
55°	374	382	379	386	393	338
65°	216	198	178	194	217	219
75°	142	122	106	109	125	148
85°	63	65	49	48	51	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1250.1	1250.1	1250.1	1250.1	1250.1
2.5°	1250.1	1247.6	1246.3	1250.7	1253.3
5°	1244.4	1241.2	1241.2	1247.6	1251.4
7.5°	1234.3	1231.1	1234.9	1240.6	1244.4
10°	1219.7	1218.5	1221.0	1228.6	1233.7
12.5°	1200.8	1201.4	1203.9	1216.0	1222.3
15°	1177.4	1179.9	1185.6	1198.2	1205.8
17.5°	1152.1	1154.0	1162.8	1177.4	1188.1
20°	1121.7	1125.5	1136.3	1154.6	1165.4
22.5°	1088.2	1092.6	1105.9	1128.1	1141.3
25°	1050.3	1054.7	1071.8	1097.1	1111.0
27.5°	1007.3	1014.2	1033.2	1061.0	1080.0
30°	961.8	967.5	988.9	1020.6	1036.4
32.5°	913.1	920.0	940.3	970.6	984.5
35°	861.9	865.6	885.9	912.4	930.8
37.5°	803.7	805.6	824.5	849.2	865.6
40°	741.1	742.3	759.4	782.8	797.4
42.5°	676.0	676.6	694.9	712.6	725.3
45°	607.7	614.6	629.8	645.0	652.6
47.5°	546.3	551.4	565.3	578.6	585.5
50°	482.5	495.1	504.6	511.5	519.8
52.5°	427.4	438.2	440.7	448.9	455.9
55°	374.3	381.9	379.4	386.3	393.3
57.5°	329.4	325.6	317.4	329.4	338.3
60°	287.1	277.0	263.0	279.5	292.8
62.5°	249.1	232.7	215.6	232.1	254.2
65°	215.6	198.5	177.7	193.5	216.9
67.5°	190.3	172.6	148.0	163.8	187.2
70°	171.4	153.0	127.7	141.0	161.9
72.5°	156.2	136.6	114.5	123.3	141.0
75°	141.6	122.0	106.2	108.8	125.2
77.5°	124.6	110.0	97.4	96.1	108.8
80°	104.3	99.9	84.7	82.8	89.8
82.5°	86.0	84.1	69.6	67.7	70.2
85°	62.6	65.1	49.3	48.1	50.6
87.5°	32.9	36.0	25.9	27.2	27.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)