

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: P292369

Luminaire Tested: **22GR-LD5-24-A125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292369
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-LD5-24-A125-UNV-L82765-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2467.0 lumens
Efficiency: N/A
Efficacy: 133.3 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

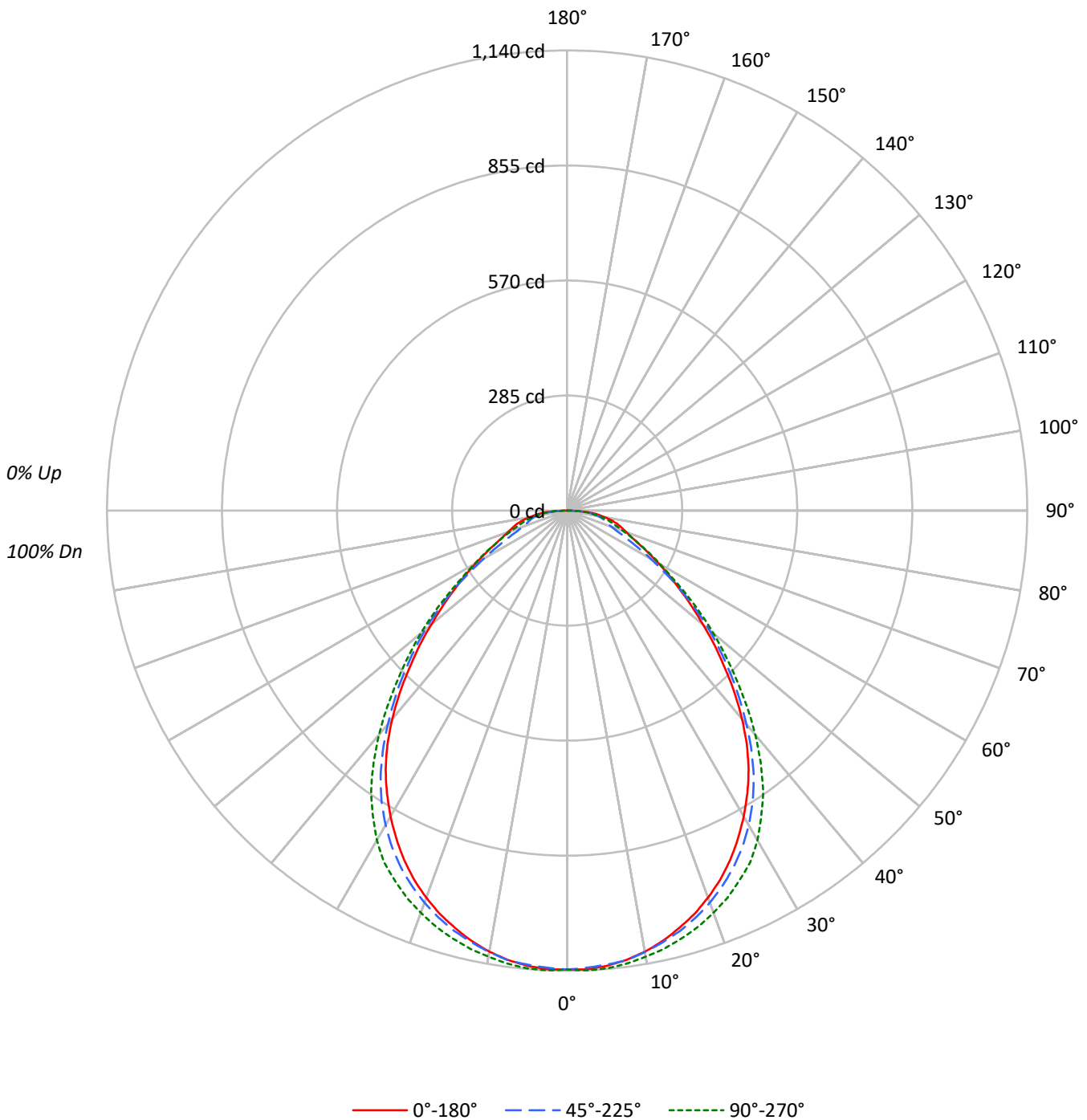
Input Watts (W): 18.507
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3060	3060	3060
5°	3058	3050	3075
10°	3032	3035	3066
15°	2984	3005	3056
20°	2922	2960	3036
25°	2837	2895	3001
30°	2719	2795	2929
35°	2576	2647	2781
40°	2368	2427	2548
45°	2104	2180	2259
50°	1837	1922	1979
55°	1597	1619	1679
60°	1405	1288	1433
65°	1249	1029	1256
70°	1227	914	1159
75°	1339	1004	1184
80°	1471	1195	1266
85°	1757	1386	1420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	4.4
10°-20°	304.8	12.4
20°-30°	449.9	18.2
30°-40°	503.5	20.4
40°-50°	442.1	17.9
50°-60°	312.8	12.7
60°-70°	182.1	7.4
70°-80°	113.5	4.6
80°-90°	50.8	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°	862.2	34.9
0°-40°	1365.7	55.4
0°-60°	2120.6	86.0
0°-90°	2467.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2467.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1137	1137	1137	1137	1137	
5°	1132	1129	1129	1135	1138	107
15°	1071	1073	1078	1090	1097	302
25°	955	959	975	998	1011	439
35°	784	787	806	830	847	488
45°	553	559	573	587	594	428
55°	340	347	345	351	358	308
65°	196	181	162	176	197	199
75°	129	111	97	99	114	135
85°	57	59	45	44	46	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1137.2	1137.2	1137.2	1137.2	<i>1137.2</i>
2.5°	<i>1137.2</i>	<i>1134.9</i>	<i>1133.7</i>	<i>1137.7</i>	<i>1140.0</i>
5°	1132.0	1129.1	1129.1	1134.9	<i>1138.3</i>
7.5°	1122.8	1119.9	1123.4	1128.5	<i>1132.0</i>
10°	1109.6	1108.4	1110.7	1117.6	<i>1122.2</i>
12.5°	1092.3	1092.9	1095.2	1106.1	<i>1111.9</i>
15°	1071.0	1073.3	1078.5	1090.0	<i>1096.9</i>
17.5°	1048.0	1049.7	1057.8	1071.0	<i>1080.8</i>
20°	1020.4	1023.9	1033.6	1050.3	<i>1060.1</i>
22.5°	989.9	993.9	1006.0	1026.2	<i>1038.2</i>
25°	955.4	959.4	975.0	998.0	<i>1010.6</i>
27.5°	916.3	922.6	939.9	965.2	<i>982.4</i>
30°	874.9	880.1	899.6	928.4	<i>942.7</i>
32.5°	830.6	836.9	855.3	882.9	<i>895.6</i>
35°	784.0	787.4	805.9	830.0	<i>846.7</i>
37.5°	731.1	732.8	750.1	772.5	<i>787.4</i>
40°	674.1	675.3	690.8	712.1	<i>725.3</i>
42.5°	614.9	615.5	632.1	648.2	<i>659.8</i>
45°	552.8	559.1	572.9	586.7	<i>593.6</i>
47.5°	497.0	501.6	514.2	526.3	<i>532.6</i>
50°	438.9	450.4	459.0	465.3	<i>472.8</i>
52.5°	388.8	398.6	400.9	408.4	<i>414.7</i>
55°	340.5	347.4	345.1	351.4	<i>357.8</i>
57.5°	299.7	296.2	288.7	299.7	<i>307.7</i>
60°	261.1	251.9	239.3	254.2	<i>266.3</i>
62.5°	226.6	211.7	196.1	211.1	<i>231.2</i>
65°	196.1	180.6	161.6	176.0	<i>197.3</i>
67.5°	173.1	157.0	134.6	149.0	<i>170.3</i>
70°	155.9	139.2	116.2	128.3	<i>147.3</i>
72.5°	142.1	124.2	104.1	112.2	<i>128.3</i>
75°	128.8	111.0	96.6	98.9	<i>113.9</i>
77.5°	113.3	100.1	88.6	87.4	<i>98.9</i>
80°	94.9	90.9	77.1	75.4	<i>81.7</i>
82.5°	78.2	76.5	63.3	61.5	<i>63.8</i>
85°	56.9	59.2	44.9	43.7	<i>46.0</i>
87.5°	29.9	32.8	23.6	24.7	<i>25.3</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)