

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: P292435

Luminaire Tested: **22GR-LD5-32-A125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292435
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-LD5-32-A125-UNV-L93050-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2727.0 lumens
Efficiency: N/A
Efficacy: 109.0 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

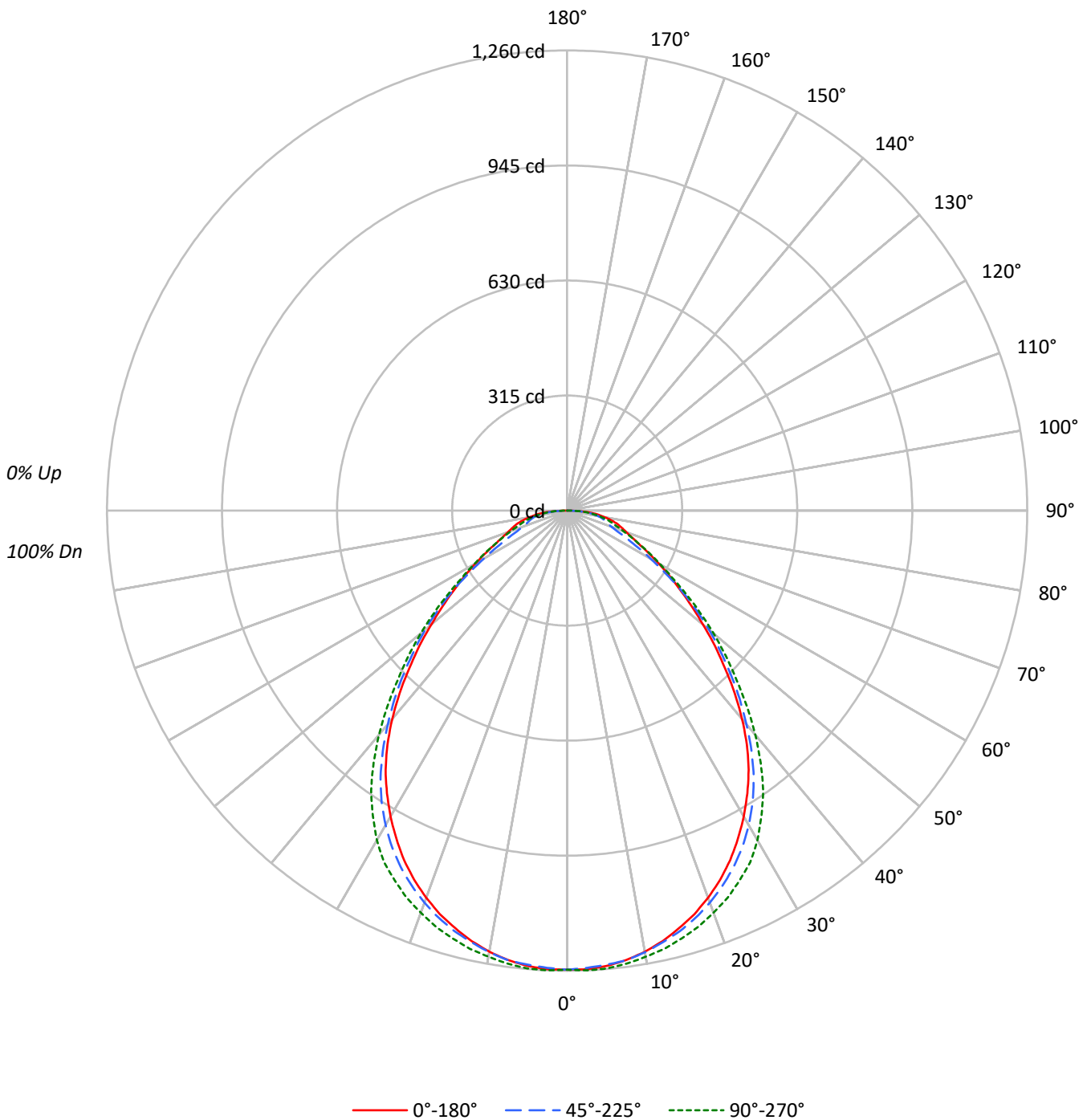
Input Watts (W): 25.017
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86					86			
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74					74			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49					49			
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3383	3383	3383
5°	3380	3371	3399
10°	3351	3355	3390
15°	3298	3321	3378
20°	3230	3272	3356
25°	3136	3200	3317
30°	3005	3090	3238
35°	2847	2926	3075
40°	2618	2682	2817
45°	2325	2410	2497
50°	2031	2124	2188
55°	1766	1790	1856
60°	1554	1424	1584
65°	1380	1138	1389
70°	1356	1010	1281
75°	1481	1110	1309
80°	1626	1320	1399
85°	1942	1531	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	4.4
10°-20°	336.9	12.4
20°-30°	497.4	18.2
30°-40°	556.5	20.4
40°-50°	488.7	17.9
50°-60°	345.8	12.7
60°-70°	201.3	7.4
70°-80°	125.4	4.6
80°-90°	56.1	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°	953.1	34.9
0°-40°	1509.6	55.4
0°-60°	2344.1	86.0
0°-90°	2727.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2727.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1257	1257	1257	1257	1257	
5°	1251	1248	1248	1254	1258	119
15°	1184	1186	1192	1205	1212	334
25°	1056	1060	1078	1103	1117	485
35°	867	870	891	918	936	539
45°	611	618	633	648	656	473
55°	376	384	382	388	396	340
65°	217	200	179	195	218	220
75°	142	123	107	109	126	149
85°	63	66	50	48	51	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1257.0	1257.0	1257.0	1257.0	1257.0
2.5°	1257.0	1254.5	1253.2	1257.6	1260.2
5°	1251.3	1248.1	1248.1	1254.5	1258.3
7.5°	1241.1	1237.9	1241.8	1247.5	1251.3
10°	1226.5	1225.2	1227.8	1235.4	1240.5
12.5°	1207.4	1208.1	1210.6	1222.7	1229.0
15°	1183.9	1186.4	1192.2	1204.9	1212.5
17.5°	1158.5	1160.4	1169.3	1183.9	1194.7
20°	1127.9	1131.8	1142.6	1161.0	1171.8
22.5°	1094.2	1098.7	1112.0	1134.3	1147.7
25°	1056.1	1060.5	1077.7	1103.1	1117.1
27.5°	1012.9	1019.9	1038.9	1066.9	1086.0
30°	967.1	972.8	994.4	1026.2	1042.1
32.5°	918.1	925.1	945.5	976.0	990.0
35°	866.6	870.4	890.8	917.5	935.9
37.5°	808.1	810.0	829.1	853.9	870.4
40°	745.2	746.5	763.6	787.1	801.8
42.5°	679.7	680.3	698.8	716.6	729.3
45°	611.0	618.0	633.3	648.5	656.2
47.5°	549.3	554.4	568.4	581.8	588.8
50°	485.1	497.8	507.4	514.4	522.6
52.5°	429.8	440.6	443.2	451.4	458.4
55°	376.4	384.0	381.5	388.5	395.5
57.5°	331.3	327.4	319.2	331.3	340.2
60°	288.7	278.5	264.5	281.0	294.4
62.5°	250.5	234.0	216.8	233.3	255.6
65°	216.8	199.6	178.7	194.6	218.1
67.5°	191.4	173.6	148.8	164.7	188.2
70°	172.3	153.9	128.4	141.8	162.8
72.5°	157.0	137.3	115.1	124.0	141.8
75°	142.4	122.7	106.8	109.4	125.9
77.5°	125.3	110.6	97.9	96.6	109.4
80°	104.9	100.5	85.2	83.3	90.3
82.5°	86.5	84.6	69.9	68.0	70.6
85°	62.9	65.5	49.6	48.3	50.9
87.5°	33.1	36.2	26.1	27.3	28.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)