

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: P292484

Luminaire Tested: **22GR-LD5-32-A125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292484
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-L92765-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2833.0 lumens
Efficiency: N/A
Efficacy: 114.1 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

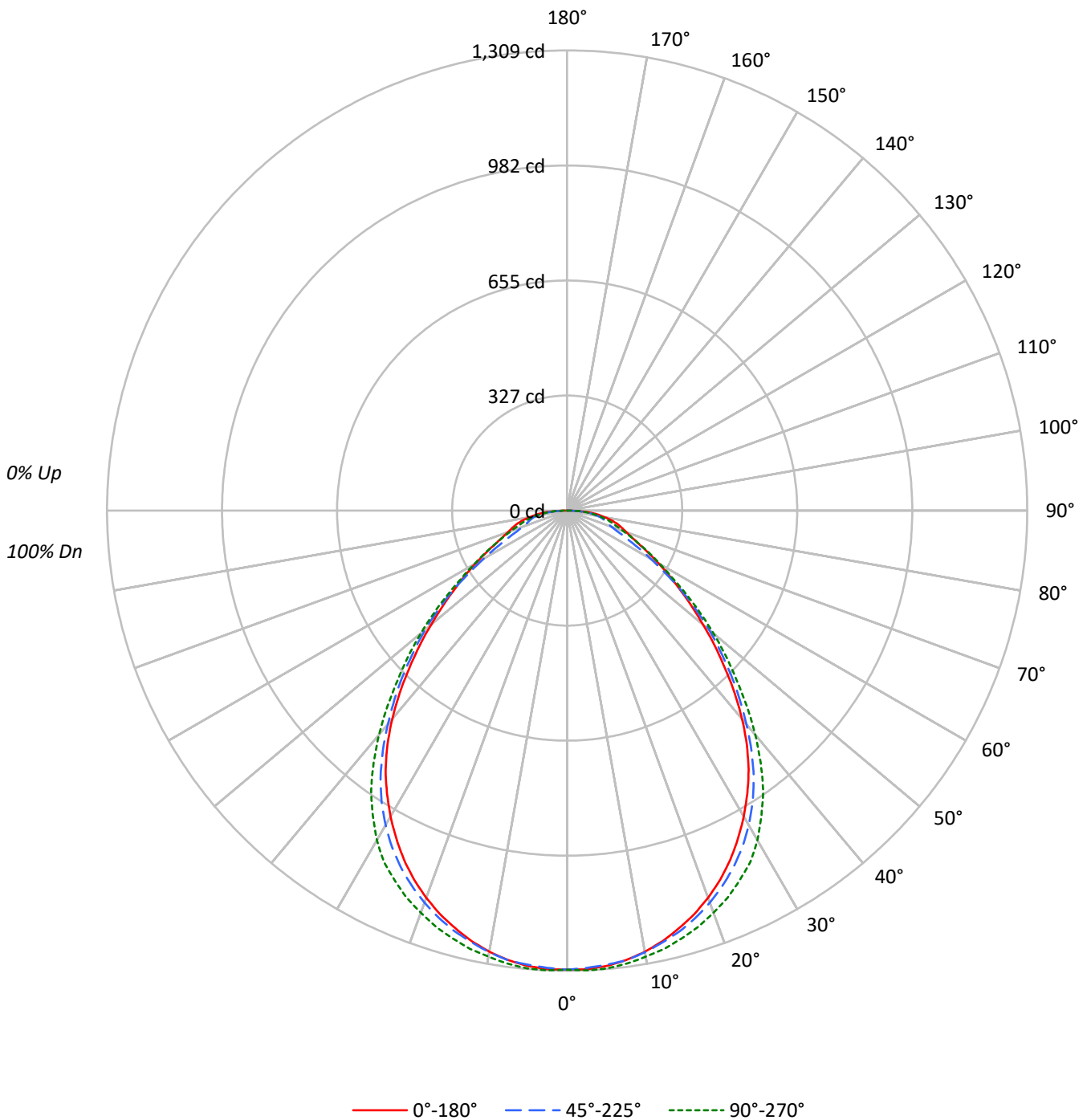
Input Watts (W): 24.831
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3514	3514	3514
5°	3511	3502	3531
10°	3482	3485	3521
15°	3426	3450	3509
20°	3356	3399	3486
25°	3257	3324	3446
30°	3122	3210	3364
35°	2958	3040	3194
40°	2719	2787	2926
45°	2416	2504	2594
50°	2110	2207	2273
55°	1834	1859	1928
60°	1614	1479	1646
65°	1434	1182	1443
70°	1408	1050	1330
75°	1539	1154	1360
80°	1689	1371	1454
85°	2019	1590	1630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	4.4
10°-20°	350.0	12.4
20°-30°	516.7	18.2
30°-40°	578.2	20.4
40°-50°	507.7	17.9
50°-60°	359.3	12.7
60°-70°	209.1	7.4
70°-80°	130.3	4.6
80°-90°	58.3	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°	990.1	34.9
0°-40°	1568.3	55.4
0°-60°	2435.3	86.0
0°-90°	2833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2833.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1306	1306	1306	1306	1306	
5°	1300	1297	1297	1303	1307	123
15°	1230	1233	1238	1252	1260	347
25°	1097	1102	1120	1146	1161	504
35°	900	904	925	953	972	560
45°	635	642	658	674	682	491
55°	391	399	396	404	411	353
65°	225	207	186	202	227	228
75°	148	128	111	114	131	155
85°	65	68	52	50	53	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1305.9	1305.9	1305.9	1305.9	1305.9
2.5°	1305.9	1303.2	1301.9	1306.5	1309.2
5°	1299.9	1296.6	1296.6	1303.2	1307.2
7.5°	1289.4	1286.1	1290.0	1296.0	1299.9
10°	1274.2	1272.8	1275.5	1283.4	1288.7
12.5°	1254.4	1255.0	1257.7	1270.2	1276.8
15°	1229.9	1232.6	1238.5	1251.7	1259.6
17.5°	1203.5	1205.5	1214.7	1229.9	1241.1
20°	1171.8	1175.7	1187.0	1206.1	1217.4
22.5°	1136.8	1141.4	1155.3	1178.4	1192.3
25°	1097.1	1101.8	1119.6	1146.0	1160.6
27.5°	1052.2	1059.5	1079.3	1108.4	1128.2
30°	1004.7	1010.6	1033.1	1066.1	1082.6
32.5°	953.8	961.1	982.2	1013.9	1028.4
35°	900.3	904.3	925.4	953.1	972.3
37.5°	839.5	841.5	861.3	887.1	904.3
40°	774.1	775.5	793.3	817.7	832.9
42.5°	706.1	706.8	725.9	744.4	757.6
45°	634.8	642.0	657.9	673.7	681.7
47.5°	570.7	576.0	590.5	604.4	611.7
50°	504.0	517.2	527.1	534.4	543.0
52.5°	446.5	457.7	460.4	469.0	476.2
55°	391.0	399.0	396.3	403.6	410.9
57.5°	344.1	340.2	331.6	344.1	353.4
60°	299.9	289.3	274.8	292.0	305.8
62.5°	260.2	243.1	225.2	242.4	265.5
65°	225.2	207.4	185.6	202.1	226.6
67.5°	198.8	180.3	154.6	171.1	195.5
70°	179.0	159.8	133.4	147.3	169.1
72.5°	163.2	142.7	119.6	128.8	147.3
75°	148.0	127.5	111.0	113.6	130.8
77.5°	130.1	114.9	101.7	100.4	113.6
80°	109.0	104.4	88.5	86.5	93.8
82.5°	89.8	87.9	72.7	70.7	73.3
85°	65.4	68.0	51.5	50.2	52.8
87.5°	34.3	37.7	27.1	28.4	29.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)