

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: P292490

Luminaire Tested: **22GR-LD5-36-A125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292490
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-LD5-36-A125-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2821.0 lumens
Efficiency: N/A
Efficacy: 100.8 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

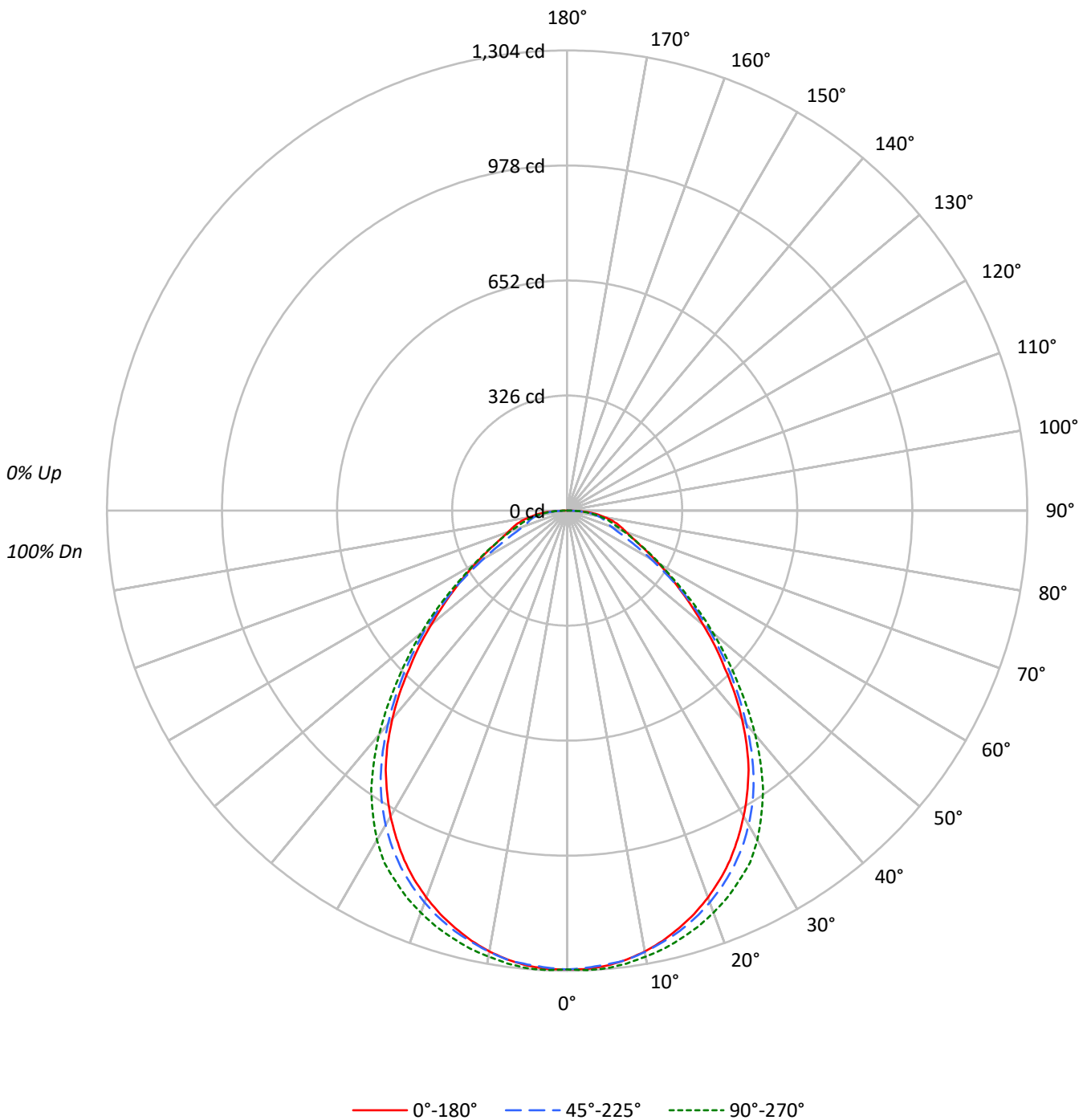
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3499	3499	3499
5°	3497	3488	3516
10°	3467	3471	3506
15°	3412	3436	3494
20°	3341	3385	3471
25°	3244	3310	3431
30°	3109	3196	3350
35°	2945	3027	3181
40°	2708	2775	2914
45°	2406	2493	2583
50°	2101	2197	2264
55°	1827	1851	1919
60°	1607	1473	1639
65°	1428	1177	1436
70°	1402	1046	1325
75°	1531	1149	1354
80°	1681	1365	1447
85°	2010	1584	1624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	4.4
10°-20°	348.5	12.4
20°-30°	514.5	18.2
30°-40°	575.7	20.4
40°-50°	505.6	17.9
50°-60°	357.7	12.7
60°-70°	208.2	7.4
70°-80°	129.8	4.6
80°-90°	58.1	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°	985.9	34.9
0°-40°	1561.6	55.4
0°-60°	2424.9	86.0
0°-90°	2821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2821.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1300	1300	1300	1300	1300	
5°	1294	1291	1291	1298	1302	123
15°	1225	1227	1233	1246	1254	345
25°	1092	1097	1115	1141	1156	502
35°	896	900	922	949	968	558
45°	632	639	655	671	679	489
55°	389	397	395	402	409	352
65°	224	206	185	201	226	227
75°	147	127	110	113	130	154
85°	65	68	51	50	53	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1300.3	1300.3	1300.3	1300.3	1300.3
2.5°	1300.3	1297.7	1296.4	1301.0	1303.6
5°	1294.4	1291.1	1291.1	1297.7	1301.7
7.5°	1283.9	1280.6	1284.6	1290.5	1294.4
10°	1268.8	1267.5	1270.1	1278.0	1283.2
12.5°	1249.0	1249.7	1252.3	1264.8	1271.4
15°	1224.7	1227.3	1233.3	1246.4	1254.3
17.5°	1198.4	1200.4	1209.6	1224.7	1235.9
20°	1166.8	1170.8	1181.9	1201.0	1212.2
22.5°	1132.0	1136.6	1150.4	1173.4	1187.2
25°	1092.5	1097.1	1114.9	1141.2	1155.6
27.5°	1047.8	1055.0	1074.7	1103.7	1123.4
30°	1000.4	1006.3	1028.7	1061.6	1078.0
32.5°	949.8	957.0	978.1	1009.6	1024.1
35°	896.5	900.4	921.5	949.1	968.2
37.5°	836.0	838.0	857.7	883.3	900.4
40°	770.9	772.2	789.9	814.3	829.4
42.5°	703.1	703.8	722.9	741.3	754.4
45°	632.1	639.3	655.1	670.9	678.8
47.5°	568.3	573.5	588.0	601.8	609.1
50°	501.9	515.0	524.9	532.1	540.7
52.5°	444.6	455.8	458.4	467.0	474.2
55°	389.4	397.3	394.6	401.9	409.1
57.5°	342.7	338.7	330.2	342.7	351.9
60°	298.6	288.1	273.6	290.7	304.5
62.5°	259.1	242.0	224.3	241.4	264.4
65°	224.3	206.5	184.8	201.3	225.6
67.5°	198.0	179.6	153.9	170.4	194.7
70°	178.2	159.2	132.9	146.7	168.4
72.5°	162.5	142.1	119.0	128.3	146.7
75°	147.3	126.9	110.5	113.1	130.2
77.5°	129.6	114.4	101.3	100.0	113.1
80°	108.5	103.9	88.1	86.2	93.4
82.5°	89.5	87.5	72.4	70.4	73.0
85°	65.1	67.7	51.3	50.0	52.6
87.5°	34.2	37.5	27.0	28.3	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)