

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: P292356

Luminaire Tested: **22GR-LD5-20-A125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292356
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-LD5-20-A125-UNV-L82765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1898.0 lumens
Efficiency: N/A
Efficacy: 122.9 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

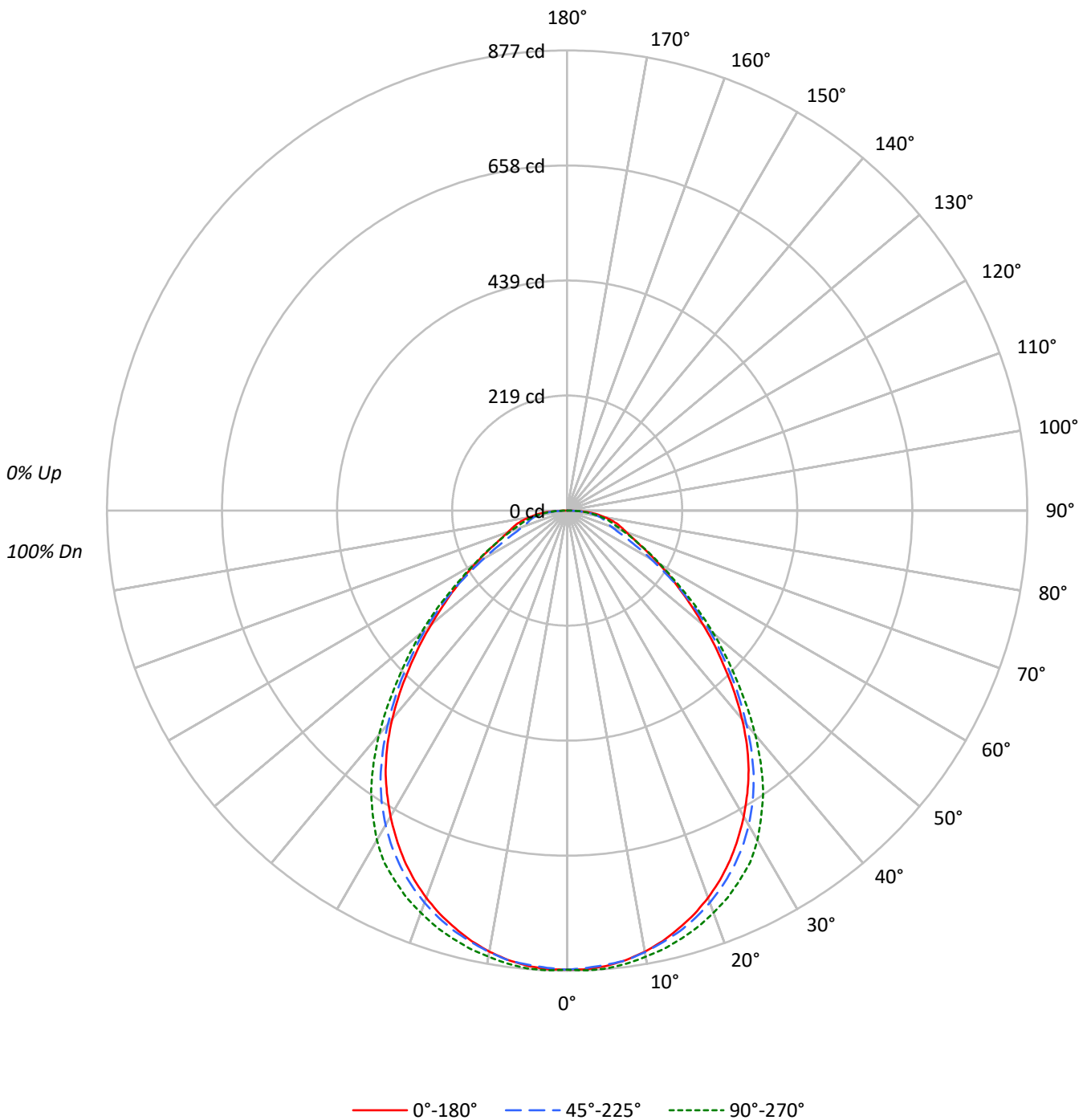
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292356

CATALOG NUMBER: 22GR-LD5-20-A125-UNV-L82765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P292356

CATALOG NUMBER: 22GR-LD5-20-A125-UNV-L82765-W2A1-U-2700K

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°	2354	2354	2354
5°	2353	2347	2366
10°	2332	2335	2359
15°	2296	2311	2351
20°	2248	2277	2336
25°	2182	2227	2309
30°	2092	2151	2254
35°	1982	2037	2140
40°	1822	1867	1960
45°	1619	1678	1738
50°	1414	1478	1523
55°	1229	1246	1292
60°	1081	991	1103
65°	961	792	967
70°	943	703	891
75°	1030	773	911
80°	1131	919	973
85°	1352	1065	1093



TEST NUMBER: P292356

CATALOG NUMBER: 22GR-LD5-20-A125-UNV-L82765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	4.4
10°-20°	234.5	12.4
20°-30°	346.2	18.2
30°-40°	387.4	20.4
40°-50°	340.2	17.9
50°-60°	240.7	12.7
60°-70°	140.1	7.4
70°-80°	87.3	4.6
80°-90°	39.1	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°	663.3	34.9
0°-40°	1050.7	55.4
0°-60°	1631.5	86.0
0°-90°	1898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1898.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	875	875	875	875	875	
5°	871	869	869	873	876	83
15°	824	826	830	839	844	232
25°	735	738	750	768	778	338
35°	603	606	620	639	651	375
45°	425	430	441	451	457	329
55°	262	267	266	270	275	237
65°	151	139	124	135	152	153
75°	99	85	74	76	88	104
85°	44	46	34	34	35	45
90°	0	0	0	0	0	



TEST NUMBER: P292356

CATALOG NUMBER: 22GR-LD5-20-A125-UNV-L82765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	874.9	874.9	874.9	874.9	874.9
2.5°	874.9	873.1	872.2	875.3	877.1
5°	870.9	868.7	868.7	873.1	875.8
7.5°	863.8	861.6	864.3	868.2	870.9
10°	853.6	852.8	854.5	859.8	863.4
12.5°	840.4	840.8	842.6	851.0	855.4
15°	824.0	825.8	829.7	838.6	843.9
17.5°	806.3	807.6	813.8	824.0	831.5
20°	785.1	787.7	795.2	808.1	815.6
22.5°	761.6	764.7	774.0	789.5	798.8
25°	735.0	738.1	750.1	767.8	777.5
27.5°	705.0	709.8	723.1	742.6	755.8
30°	673.1	677.1	692.1	714.2	725.3
32.5°	639.0	643.9	658.0	679.3	689.0
35°	603.2	605.8	620.0	638.6	651.4
37.5°	562.5	563.8	577.1	594.3	605.8
40°	518.6	519.5	531.5	547.9	558.0
42.5°	473.1	473.5	486.3	498.7	507.6
45°	425.3	430.1	440.8	451.4	456.7
47.5°	382.3	385.9	395.6	404.9	409.8
50°	337.7	346.5	353.1	358.0	363.8
52.5°	299.2	306.7	308.4	314.2	319.1
55°	262.0	267.3	265.5	270.4	275.3
57.5°	230.6	227.9	222.2	230.6	236.8
60°	200.9	193.8	184.1	195.6	204.9
62.5°	174.4	162.9	150.9	162.4	177.9
65°	150.9	139.0	124.4	135.4	151.8
67.5°	133.2	120.8	103.6	114.6	131.0
70°	119.9	107.1	89.4	98.7	113.3
72.5°	109.3	95.6	80.1	86.3	98.7
75°	99.1	85.4	74.3	76.1	87.6
77.5°	87.2	77.0	68.1	67.3	76.1
80°	73.0	69.9	59.3	58.0	62.8
82.5°	60.2	58.9	48.7	47.4	49.1
85°	43.8	45.6	34.5	33.6	35.4
87.5°	23.0	25.2	18.1	19.0	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)