

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: P292357

Luminaire Tested: **22GR-LD5-20-A125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292357
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-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1953.0 lumens
Efficiency: N/A
Efficacy: 127.3 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

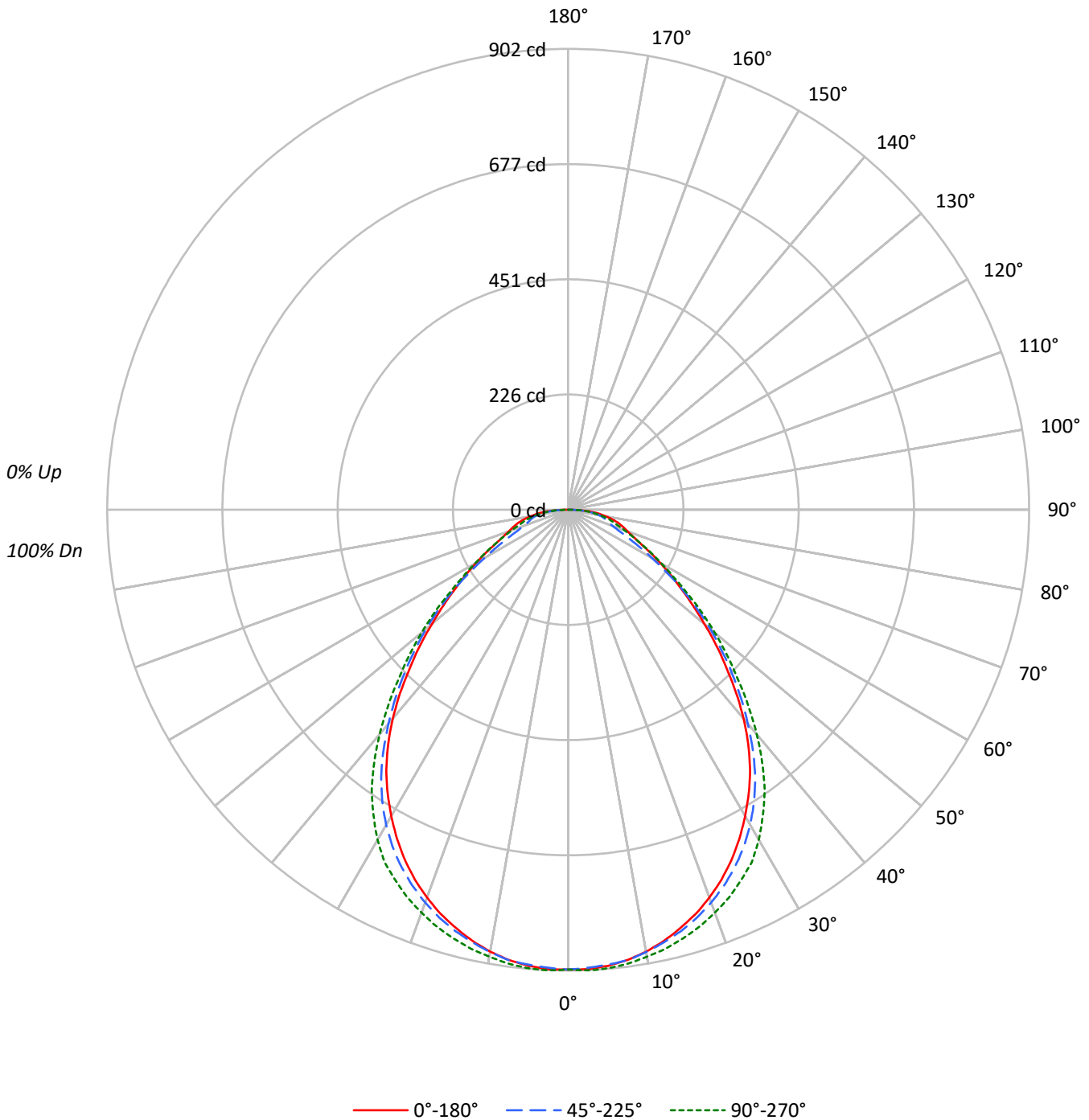
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2422	2422	2422
5°	2421	2415	2434
10°	2400	2403	2428
15°	2362	2379	2419
20°	2313	2343	2403
25°	2246	2292	2376
30°	2152	2213	2319
35°	2039	2096	2202
40°	1875	1921	2017
45°	1665	1726	1788
50°	1454	1521	1567
55°	1265	1282	1329
60°	1112	1019	1135
65°	989	815	995
70°	971	724	917
75°	1061	795	938
80°	1164	945	1003
85°	1392	1096	1124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	4.4
10°-20°	241.3	12.4
20°-30°	356.2	18.2
30°-40°	398.6	20.4
40°-50°	350.0	17.9
50°-60°	247.7	12.7
60°-70°	144.2	7.4
70°-80°	89.8	4.6
80°-90°	40.2	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°	682.6	34.9
0°-40°	1081.1	55.4
0°-60°	1678.8	86.0
0°-90°	1953.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1953.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	900	900	900	900	900	
5°	896	894	894	898	901	85
15°	848	850	854	863	868	239
25°	756	760	772	790	800	347
35°	621	623	638	657	670	386
45°	438	443	454	464	470	338
55°	270	275	273	278	283	244
65°	155	143	128	139	156	158
75°	102	88	76	78	90	107
85°	45	47	36	35	36	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	900.2	900.2	900.2	900.2	900.2
2.5°	900.2	898.4	897.5	900.7	902.5
5°	896.1	893.9	893.9	898.4	901.1
7.5°	888.9	886.6	889.3	893.4	896.1
10°	878.4	877.5	879.3	884.8	888.4
12.5°	864.7	865.2	867.0	875.6	880.2
15°	847.9	849.7	853.8	862.9	868.4
17.5°	829.7	831.0	837.4	847.9	855.6
20°	807.8	810.5	818.3	831.5	839.2
22.5°	783.7	786.9	796.4	812.4	821.9
25°	756.3	759.5	771.8	790.0	800.1
27.5°	725.4	730.4	744.0	764.1	777.7
30°	692.6	696.7	712.2	734.9	746.3
32.5°	657.5	662.5	677.1	699.0	709.0
35°	620.6	623.4	638.0	657.1	670.3
37.5°	578.8	580.1	593.8	611.5	623.4
40°	533.7	534.6	546.9	563.7	574.2
42.5°	486.8	487.2	500.4	513.2	522.3
45°	437.6	442.6	453.5	464.5	469.9
47.5°	393.4	397.1	407.1	416.6	421.7
50°	347.4	356.5	363.4	368.4	374.3
52.5°	307.8	315.6	317.4	323.3	328.3
55°	269.6	275.0	273.2	278.2	283.2
57.5°	237.2	234.5	228.6	237.2	243.6
60°	206.7	199.4	189.4	201.3	210.8
62.5°	179.4	167.6	155.3	167.1	183.1
65°	155.3	143.0	128.0	139.3	156.2
67.5°	137.1	124.3	106.6	117.9	134.8
70°	123.4	110.2	92.0	101.5	116.6
72.5°	112.5	98.4	82.4	88.8	101.5
75°	102.0	87.9	76.5	78.3	90.2
77.5°	89.7	79.2	70.1	69.2	78.3
80°	75.1	71.9	61.0	59.7	64.7
82.5°	61.9	60.6	50.1	48.7	50.5
85°	45.1	46.9	35.5	34.6	36.4
87.5°	23.7	26.0	18.7	19.6	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)