

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: P292419

Luminaire Tested: **22GR-LD5-20-A125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292419
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-L93050-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1609.0 lumens
Efficiency: N/A
Efficacy: 101.8 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

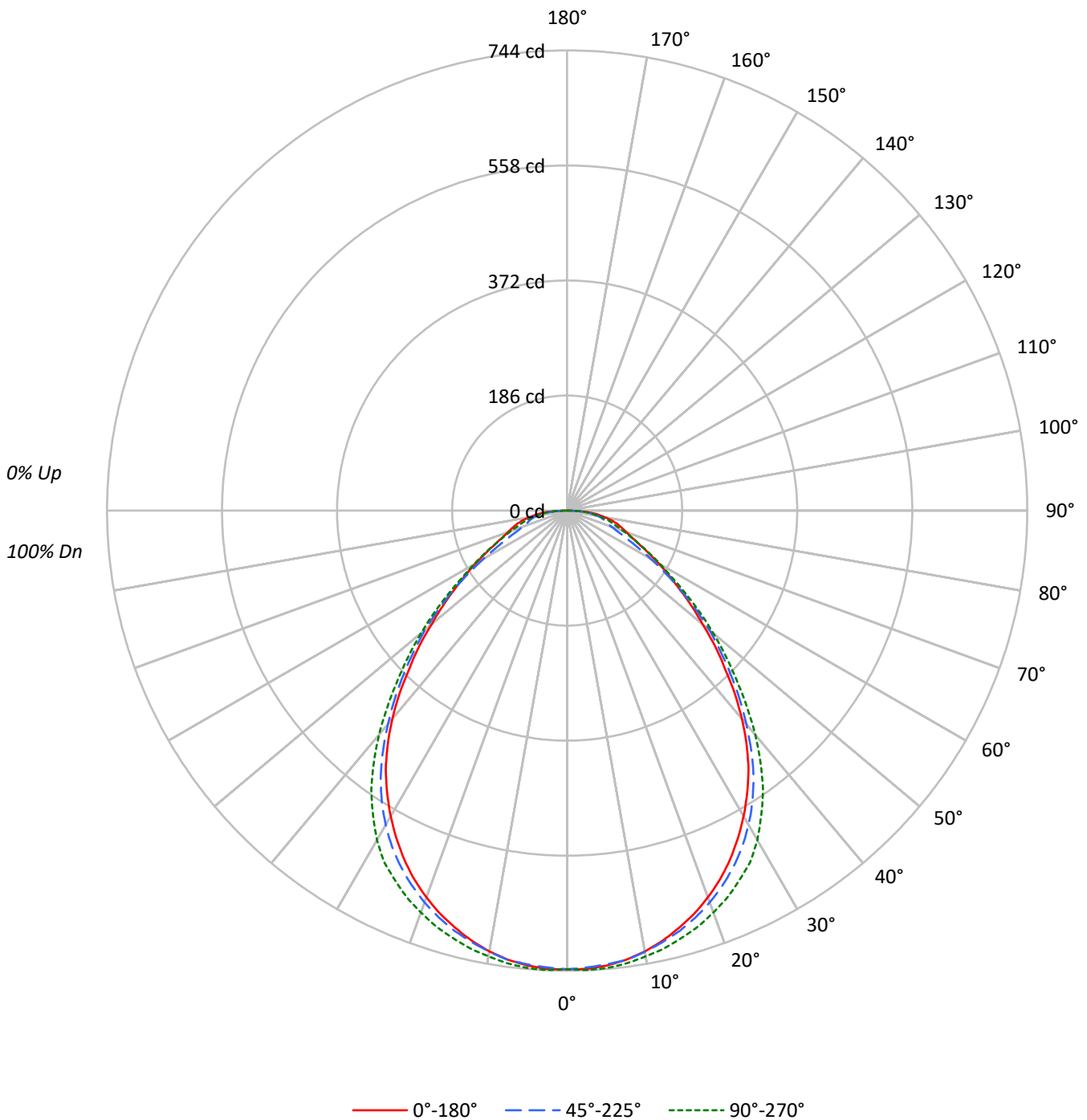
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1996	1996	1996
5°	1994	1989	2005
10°	1978	1979	2000
15°	1946	1960	1993
20°	1906	1930	1980
25°	1850	1888	1957
30°	1773	1823	1911
35°	1680	1727	1814
40°	1545	1583	1662
45°	1372	1422	1474
50°	1198	1253	1291
55°	1042	1056	1095
60°	917	840	935
65°	814	671	819
70°	800	596	755
75°	873	655	773
80°	959	779	826
85°	1145	905	926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	4.4
10°-20°	198.8	12.4
20°-30°	293.5	18.2
30°-40°	328.4	20.4
40°-50°	288.4	17.9
50°-60°	204.0	12.7
60°-70°	118.8	7.4
70°-80°	74.0	4.6
80°-90°	33.1	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°	562.3	34.9
0°-40°	890.7	55.4
0°-60°	1383.1	86.0
0°-90°	1609.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1609.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	738	736	736	740	742	70
15°	698	700	703	711	715	197
25°	623	626	636	651	659	286
35°	511	514	526	541	552	318
45°	360	365	374	383	387	279
55°	222	227	225	229	233	201
65°	128	118	105	115	129	130
75°	84	72	63	64	74	88
85°	37	39	29	28	30	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	741.7	741.7	741.7	741.7	741.7
2.5°	741.7	740.2	739.4	742.0	743.5
5°	738.3	736.4	736.4	740.2	742.4
7.5°	732.3	730.4	732.7	736.0	738.3
10°	723.7	722.9	724.4	728.9	731.9
12.5°	712.4	712.8	714.3	721.4	725.2
15°	698.5	700.0	703.4	710.9	715.4
17.5°	683.5	684.6	689.9	698.5	704.9
20°	665.5	667.8	674.1	685.0	691.4
22.5°	645.6	648.3	656.1	669.3	677.1
25°	623.1	625.7	635.9	650.9	659.1
27.5°	597.6	601.7	613.0	629.5	640.8
30°	570.6	574.0	586.7	605.5	614.9
32.5°	541.7	545.8	557.8	575.9	584.1
35°	511.3	513.6	525.6	541.3	552.2
37.5°	476.8	477.9	489.2	503.8	513.6
40°	439.7	440.4	450.6	464.4	473.1
42.5°	401.0	401.4	412.3	422.8	430.3
45°	360.5	364.6	373.6	382.7	387.2
47.5°	324.1	327.1	335.4	343.3	347.4
50°	286.2	293.7	299.4	303.5	308.4
52.5°	253.6	260.0	261.5	266.4	270.5
55°	222.1	226.6	225.1	229.2	233.3
57.5°	195.5	193.2	188.3	195.5	200.7
60°	170.3	164.3	156.1	165.8	173.7
62.5°	147.8	138.1	127.9	137.7	150.8
65°	127.9	117.8	105.4	114.8	128.7
67.5°	112.9	102.4	87.8	97.2	111.0
70°	101.7	90.8	75.8	83.7	96.0
72.5°	92.7	81.0	67.9	73.2	83.7
75°	84.0	72.4	63.0	64.5	74.3
77.5°	73.9	65.3	57.8	57.0	64.5
80°	61.9	59.3	50.3	49.1	53.3
82.5°	51.0	49.9	41.3	40.1	41.6
85°	37.1	38.6	29.3	28.5	30.0
87.5°	19.5	21.4	15.4	16.1	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)