

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: P292321

Luminaire Tested: **22GR-LD5-20-A125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292321
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-L83050-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: 1955.0 lumens
Efficiency: N/A
Efficacy: 126.6 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

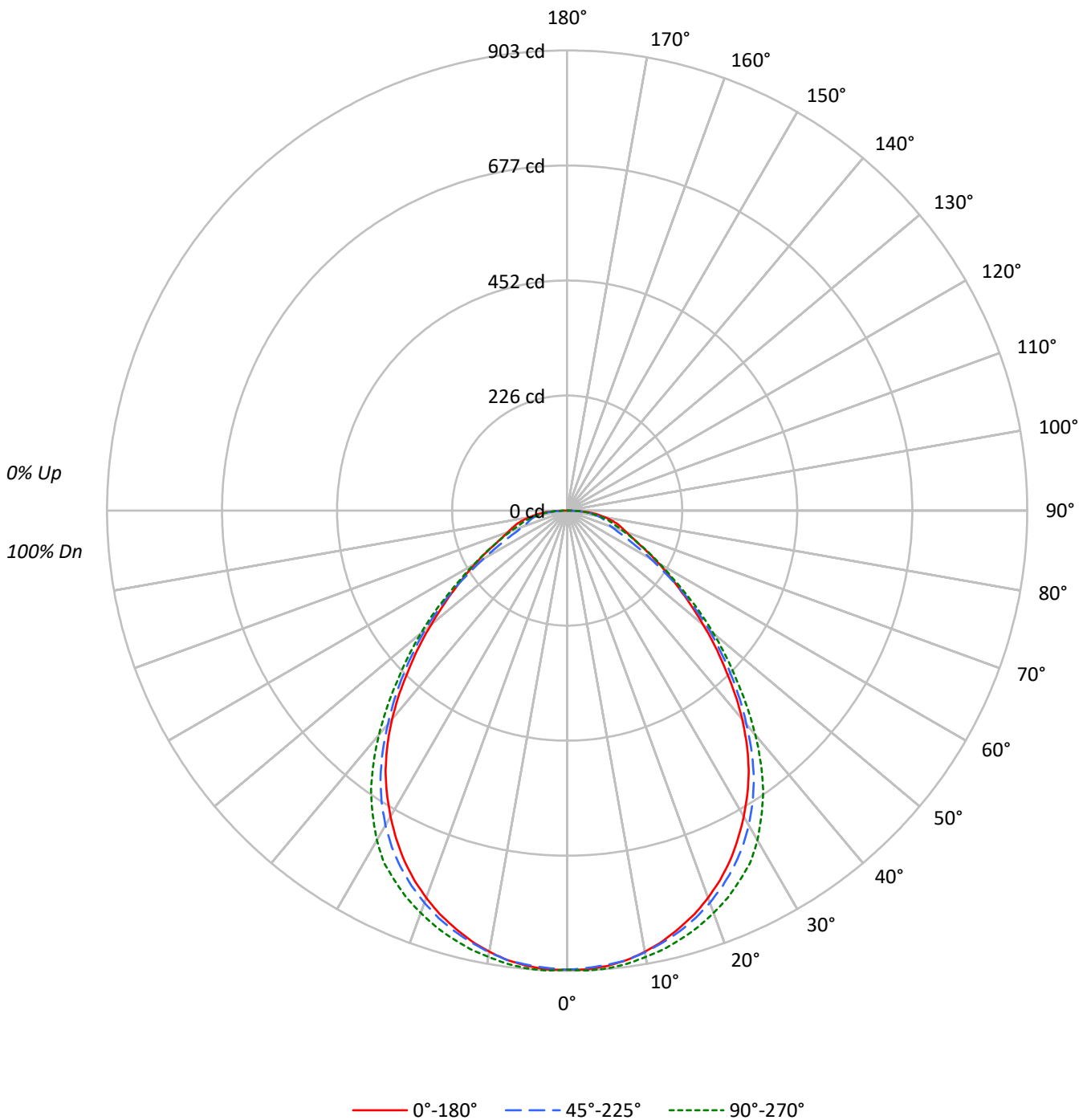
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
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°	2425	2425	2425
5°	2423	2417	2437
10°	2403	2405	2430
15°	2364	2381	2422
20°	2316	2346	2406
25°	2248	2294	2378
30°	2154	2215	2321
35°	2041	2098	2204
40°	1877	1923	2019
45°	1667	1728	1790
50°	1456	1523	1569
55°	1266	1283	1330
60°	1114	1020	1136
65°	989	816	995
70°	972	725	918
75°	1062	796	939
80°	1165	947	1003
85°	1392	1099	1127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	4.4
10°-20°	241.5	12.4
20°-30°	356.6	18.2
30°-40°	399.0	20.4
40°-50°	350.4	17.9
50°-60°	247.9	12.7
60°-70°	144.3	7.4
70°-80°	89.9	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°	683.3	34.9
0°-40°	1082.2	55.4
0°-60°	1680.5	86.0
0°-90°	1955.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1955.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	901	901	901	901	901	
5°	897	895	895	899	902	85
15°	849	851	855	864	869	239
25°	757	760	773	791	801	348
35°	621	624	639	658	671	386
45°	438	443	454	465	470	339
55°	270	275	274	278	284	244
65°	155	143	128	140	156	158
75°	102	88	77	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°	901.2	901.2	901.2	901.2	901.2
2.5°	901.2	899.3	898.4	901.6	903.4
5°	897.1	894.8	894.8	899.3	902.1
7.5°	889.8	887.5	890.2	894.3	897.1
10°	879.3	878.4	880.2	885.7	889.3
12.5°	865.6	866.1	867.9	876.5	881.1
15°	848.7	850.6	854.7	863.8	869.3
17.5°	830.5	831.9	838.3	848.7	856.5
20°	808.6	811.4	819.1	832.3	840.1
22.5°	784.5	787.7	797.2	813.2	822.8
25°	757.1	760.3	772.6	790.8	800.9
27.5°	726.1	731.1	744.8	764.9	778.5
30°	693.3	697.4	712.9	735.7	747.1
32.5°	658.2	663.2	677.8	699.7	709.7
35°	621.3	624.0	638.6	657.7	671.0
37.5°	579.3	580.7	594.4	612.2	624.0
40°	534.2	535.1	547.4	564.3	574.8
42.5°	487.3	487.7	500.9	513.7	522.8
45°	438.0	443.1	454.0	464.9	470.4
47.5°	393.8	397.5	407.5	417.1	422.1
50°	347.8	356.9	363.7	368.8	374.7
52.5°	308.1	315.9	317.7	323.6	328.6
55°	269.8	275.3	273.5	278.5	283.5
57.5°	237.5	234.7	228.8	237.5	243.9
60°	206.9	199.6	189.6	201.5	211.0
62.5°	179.6	167.7	155.4	167.3	183.2
65°	155.4	143.1	128.1	139.5	156.3
67.5°	137.2	124.4	106.7	118.1	134.9
70°	123.5	110.3	92.1	101.6	116.7
72.5°	112.6	98.5	82.5	88.9	101.6
75°	102.1	88.0	76.6	78.4	90.3
77.5°	89.8	79.3	70.2	69.3	78.4
80°	75.2	72.0	61.1	59.7	64.7
82.5°	62.0	60.6	50.1	48.8	50.6
85°	45.1	46.9	35.6	34.6	36.5
87.5°	23.7	26.0	18.7	19.6	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)