

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: P292459

Luminaire Tested: **22GR-LD5-20-A125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292459
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-L92765-W2A1-U-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1912.0 lumens
Efficiency: N/A
Efficacy: 120.9 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

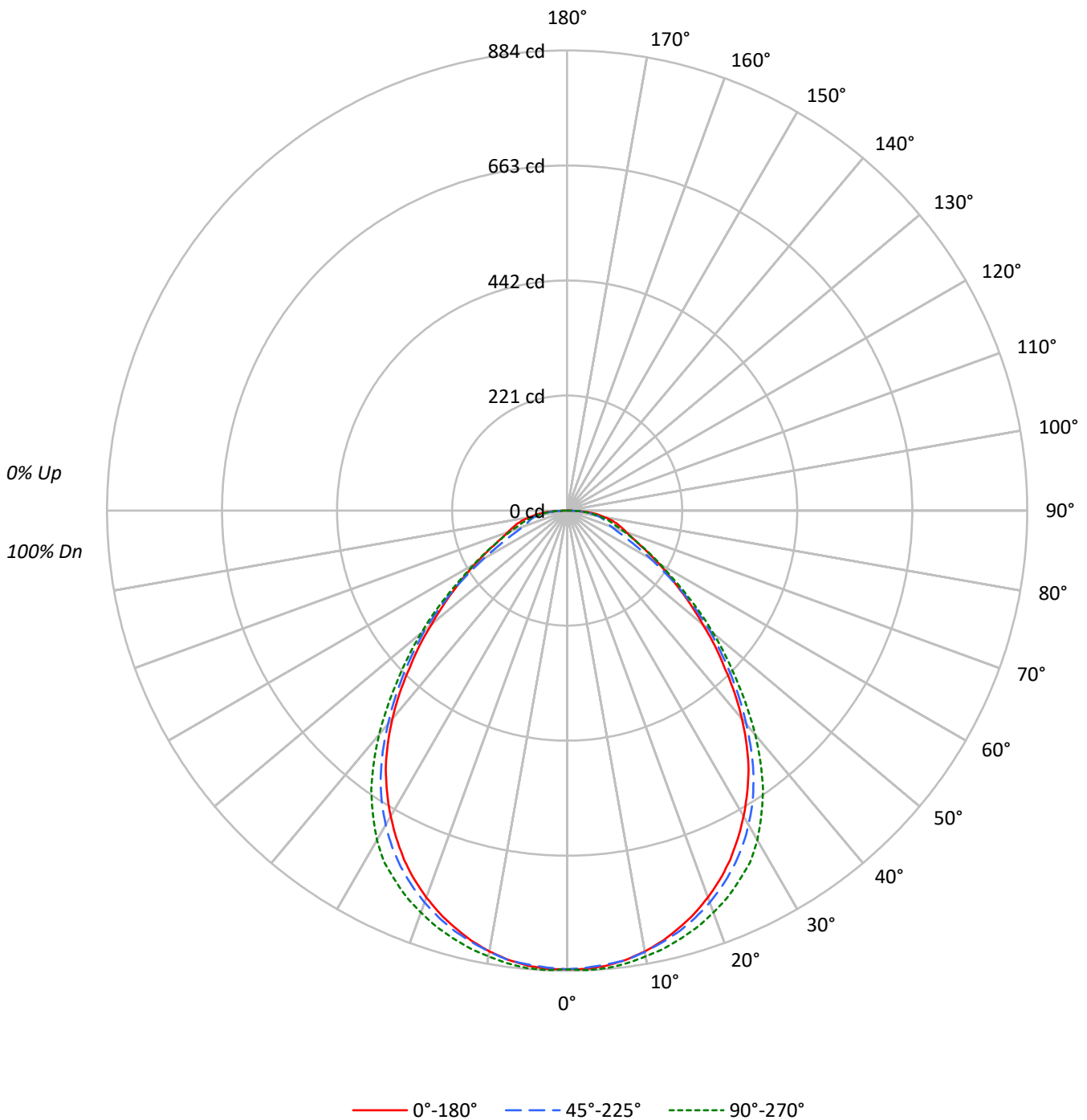
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2372	2372	2372
5°	2370	2364	2383
10°	2350	2352	2376
15°	2313	2329	2368
20°	2265	2294	2353
25°	2199	2244	2326
30°	2107	2166	2270
35°	1996	2052	2156
40°	1835	1881	1975
45°	1630	1690	1751
50°	1424	1489	1534
55°	1238	1255	1301
60°	1089	998	1111
65°	968	798	974
70°	950	709	898
75°	1039	779	918
80°	1141	925	981
85°	1362	1074	1102



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.3	4.4
10°-20°	236.2	12.4
20°-30°	348.7	18.2
30°-40°	390.2	20.4
40°-50°	342.7	17.9
50°-60°	242.5	12.7
60°-70°	141.1	7.4
70°-80°	88.0	4.6
80°-90°	39.4	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°	668.2	34.9
0°-40°	1058.4	55.4
0°-60°	1643.6	86.0
0°-90°	1912.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1912.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	881	881	881	881	881	
5°	877	875	875	880	882	83
15°	830	832	836	845	850	234
25°	740	744	756	774	783	340
35°	608	610	625	643	656	378
45°	428	433	444	455	460	331
55°	264	269	268	272	277	239
65°	152	140	125	136	153	154
75°	100	86	75	77	88	104
85°	44	46	35	34	36	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	881.3	881.3	881.3	881.3	881.3
2.5°	881.3	879.6	878.7	881.8	883.6
5°	877.3	875.1	875.1	879.6	882.2
7.5°	870.2	868.0	870.6	874.7	877.3
10°	859.9	859.0	860.8	866.2	869.7
12.5°	846.6	847.0	848.8	857.3	861.7
15°	830.1	831.9	835.9	844.8	850.1
17.5°	812.2	813.6	819.8	830.1	837.6
20°	790.8	793.5	801.1	814.0	821.6
22.5°	767.2	770.3	779.7	795.3	804.7
25°	740.5	743.6	755.6	773.5	783.3
27.5°	710.2	715.1	728.4	748.0	761.4
30°	678.1	682.1	697.2	719.5	730.7
32.5°	643.7	648.6	662.9	684.3	694.1
35°	607.6	610.3	624.6	643.3	656.2
37.5°	566.6	567.9	581.3	598.7	610.3
40°	522.5	523.4	535.4	551.9	562.1
42.5°	476.6	477.0	489.9	502.4	511.3
45°	428.4	433.3	444.0	454.7	460.1
47.5°	385.2	388.7	398.5	407.9	412.8
50°	340.1	349.1	355.7	360.6	366.4
52.5°	301.4	308.9	310.7	316.5	321.4
55°	263.9	269.3	267.5	272.4	277.3
57.5°	232.3	229.6	223.8	232.3	238.5
60°	202.4	195.3	185.5	197.0	206.4
62.5°	175.6	164.1	152.0	163.6	179.2
65°	152.0	140.0	125.3	136.4	152.9
67.5°	134.2	121.7	104.3	115.5	132.0
70°	120.8	107.9	90.1	99.4	114.1
72.5°	110.1	96.3	80.7	86.9	99.4
75°	99.9	86.0	74.9	76.7	88.3
77.5°	87.8	77.6	68.7	67.8	76.7
80°	73.6	70.4	59.7	58.4	63.3
82.5°	60.6	59.3	49.0	47.7	49.5
85°	44.1	45.9	34.8	33.9	35.7
87.5°	23.2	25.4	18.3	19.2	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)