

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: P292461

Luminaire Tested: **22GR-LD5-20-A125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292461
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-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1950.0 lumens
Efficiency: N/A
Efficacy: 122.6 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

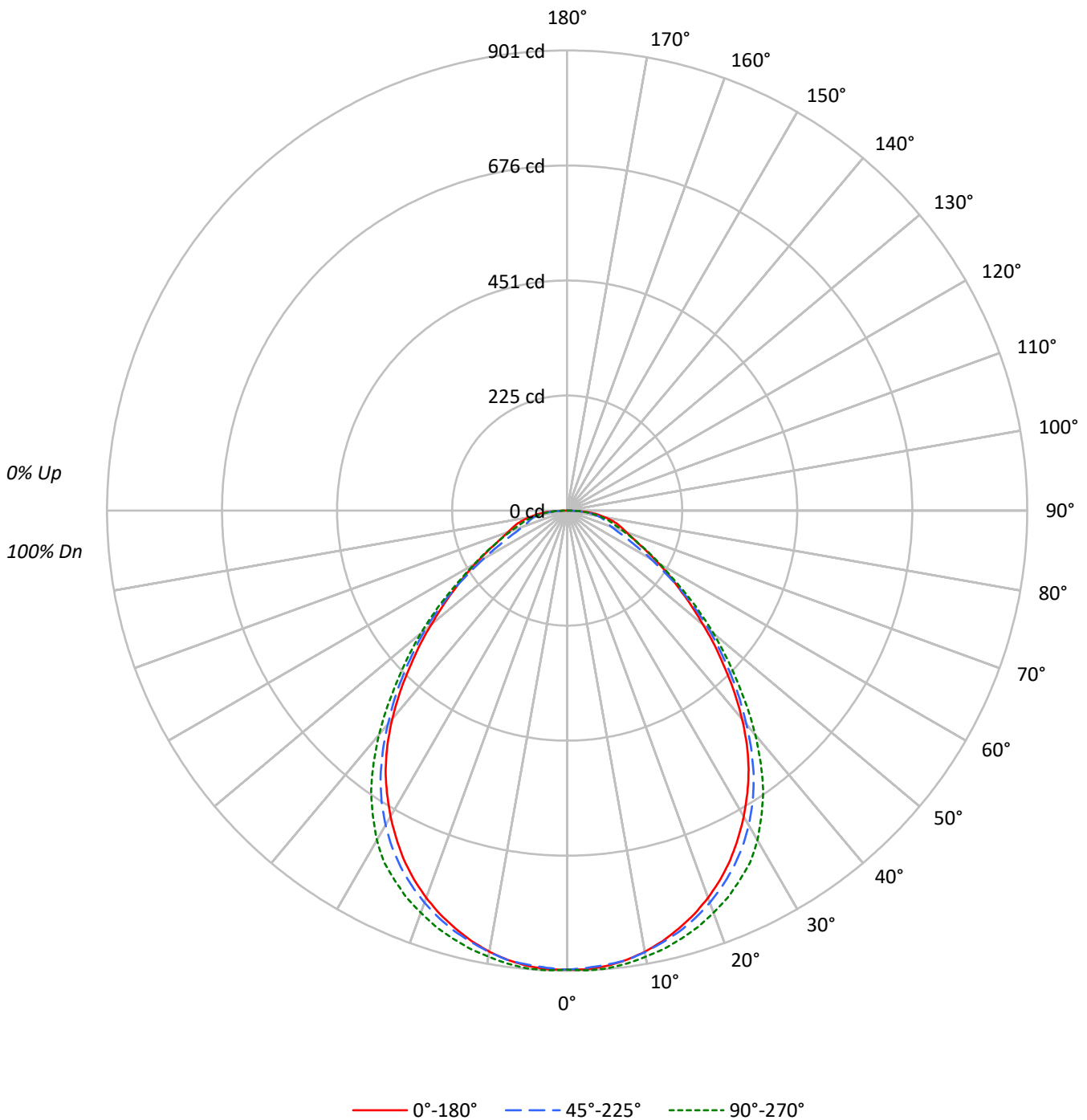
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2419	2419	2419
5°	2417	2411	2431
10°	2396	2399	2424
15°	2359	2375	2415
20°	2310	2340	2399
25°	2242	2288	2372
30°	2149	2210	2316
35°	2036	2093	2199
40°	1872	1918	2014
45°	1663	1723	1786
50°	1452	1519	1564
55°	1263	1280	1327
60°	1111	1018	1133
65°	987	814	993
70°	969	722	916
75°	1058	794	936
80°	1162	944	1001
85°	1389	1096	1124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	4.4
10°-20°	240.9	12.4
20°-30°	355.6	18.2
30°-40°	398.0	20.4
40°-50°	349.5	17.9
50°-60°	247.3	12.7
60°-70°	143.9	7.4
70°-80°	89.7	4.6
80°-90°	40.1	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°	681.5	34.9
0°-40°	1079.5	55.4
0°-60°	1676.2	86.0
0°-90°	1950.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1950.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	899	899	899	899	899	
5°	895	892	892	897	900	85
15°	847	848	852	862	867	239
25°	755	758	771	789	799	347
35°	620	622	637	656	669	385
45°	437	442	453	464	469	338
55°	269	275	273	278	283	243
65°	155	143	128	139	156	157
75°	102	88	76	78	90	106
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°	898.9	898.9	898.9	898.9	898.9
2.5°	898.9	897.0	896.1	899.3	901.1
5°	894.8	892.5	892.5	897.0	899.8
7.5°	887.5	885.2	887.9	892.0	894.8
10°	877.0	876.1	877.9	883.4	887.0
12.5°	863.4	863.8	865.7	874.3	878.8
15°	846.6	848.4	852.5	861.6	867.0
17.5°	828.4	829.7	836.1	846.6	854.3
20°	806.6	809.3	817.0	830.2	837.9
22.5°	782.5	785.6	795.2	811.1	820.7
25°	755.2	758.4	770.6	788.8	798.8
27.5°	724.3	729.3	742.9	762.9	776.6
30°	691.5	695.6	711.1	733.8	745.2
32.5°	656.5	661.5	676.1	697.9	707.9
35°	619.7	622.4	637.0	656.1	669.3
37.5°	577.9	579.2	592.9	610.6	622.4
40°	532.9	533.8	546.0	562.9	573.3
42.5°	486.0	486.5	499.7	512.4	521.5
45°	436.9	441.9	452.8	463.7	469.2
47.5°	392.8	396.5	406.5	416.0	421.0
50°	346.9	356.0	362.8	367.8	373.7
52.5°	307.3	315.1	316.9	322.8	327.8
55°	269.2	274.6	272.8	277.8	282.8
57.5°	236.9	234.1	228.2	236.9	243.2
60°	206.4	199.1	189.1	201.0	210.5
62.5°	179.1	167.3	155.0	166.9	182.8
65°	155.0	142.8	127.8	139.1	155.9
67.5°	136.9	124.1	106.4	117.8	134.6
70°	123.2	110.0	91.8	101.4	116.4
72.5°	112.3	98.2	82.3	88.7	101.4
75°	101.8	87.7	76.4	78.2	90.0
77.5°	89.6	79.1	70.0	69.1	78.2
80°	75.0	71.8	60.9	59.6	64.6
82.5°	61.8	60.5	50.0	48.6	50.5
85°	45.0	46.8	35.5	34.6	36.4
87.5°	23.6	25.9	18.6	19.6	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)