

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: P292501

Luminaire Tested: **22GR-LD5-40-A125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292501
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-LD5-40-A125-UNV-L92765-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3472.0 lumens
Efficiency: N/A
Efficacy: 107.0 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

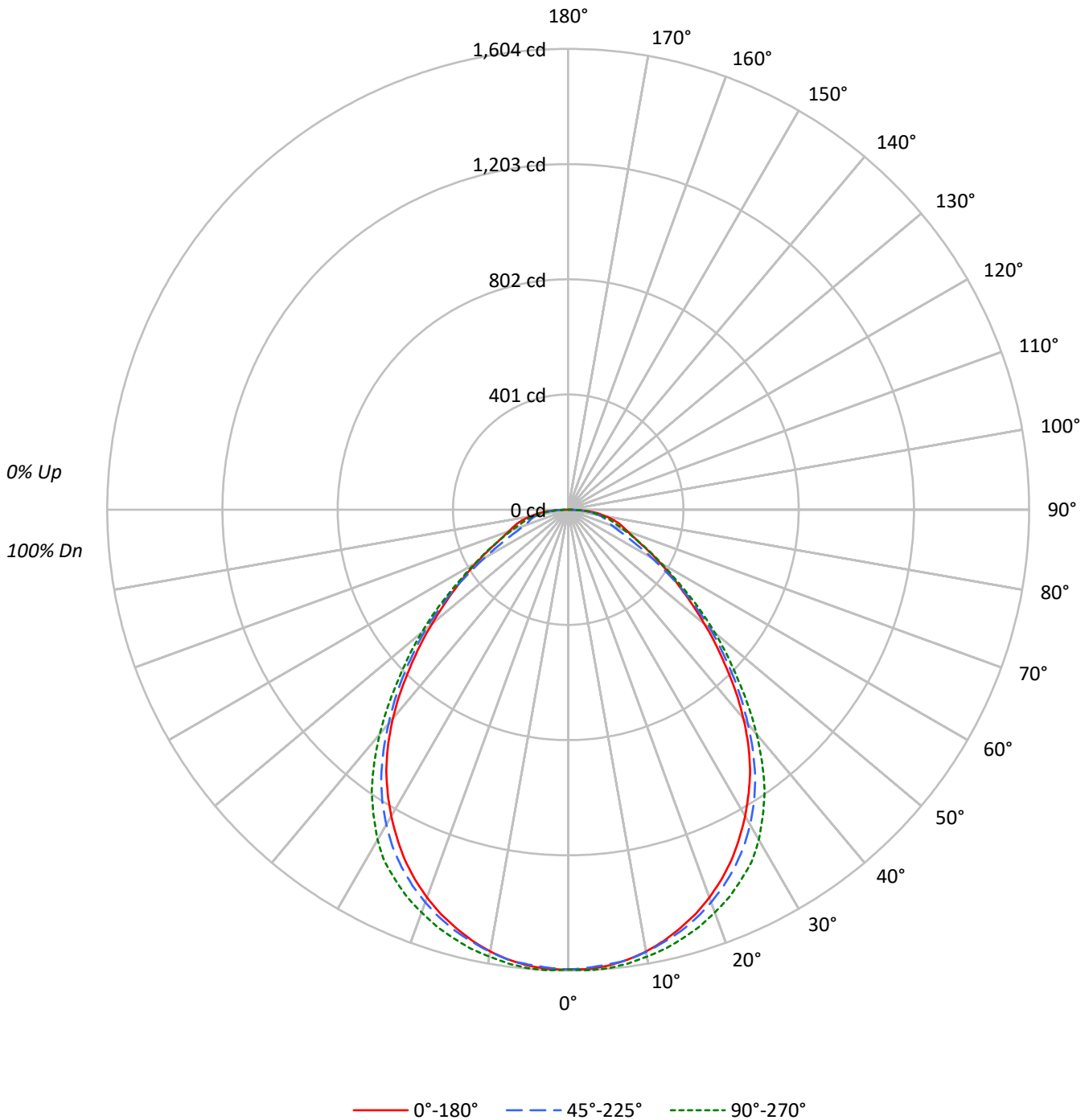
Input Watts (W): 32.457
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4307	4307	4307
5°	4303	4293	4327
10°	4267	4271	4316
15°	4199	4228	4301
20°	4113	4166	4272
25°	3992	4074	4223
30°	3826	3934	4123
35°	3625	3726	3914
40°	3333	3415	3586
45°	2960	3068	3179
50°	2586	2704	2786
55°	2248	2279	2362
60°	1978	1813	2017
65°	1757	1449	1768
70°	1726	1286	1630
75°	1885	1414	1667
80°	2070	1681	1782
85°	2473	1948	2001



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.3	4.4
10°-20°	428.9	12.4
20°-30°	633.2	18.2
30°-40°	708.6	20.4
40°-50°	622.2	17.9
50°-60°	440.3	12.7
60°-70°	256.3	7.4
70°-80°	159.7	4.6
80°-90°	71.5	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°	1213.4	34.9
0°-40°	1922.0	55.4
0°-60°	2984.5	86.0
0°-90°	3472.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3472.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1600	1600	1600	1600	1600	
5°	1593	1589	1589	1597	1602	151
15°	1507	1511	1518	1534	1544	425
25°	1345	1350	1372	1404	1422	618
35°	1103	1108	1134	1168	1192	686
45°	778	787	806	826	835	602
55°	479	489	486	495	504	433
65°	276	254	228	248	278	280
75°	181	156	136	139	160	189
85°	80	83	63	62	65	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1600.4	1600.4	1600.4	1600.4	1600.4
2.5°	1600.4	1597.2	1595.6	1601.2	1604.5
5°	1593.1	1589.1	1589.1	1597.2	1602.0
7.5°	1580.2	1576.1	1581.0	1588.3	1593.1
10°	1561.6	1559.9	1563.2	1572.9	1579.4
12.5°	1537.3	1538.1	1541.3	1556.7	1564.8
15°	1507.3	1510.6	1517.8	1534.0	1543.8
17.5°	1474.9	1477.4	1488.7	1507.3	1521.1
20°	1436.1	1440.9	1454.7	1478.2	1491.9
22.5°	1393.2	1398.8	1415.8	1444.2	1461.2
25°	1344.6	1350.3	1372.1	1404.5	1422.3
27.5°	1289.6	1298.5	1322.8	1358.4	1382.7
30°	1231.3	1238.6	1266.1	1306.6	1326.8
32.5°	1168.9	1177.9	1203.8	1242.6	1260.4
35°	1103.4	1108.2	1134.1	1168.1	1191.6
37.5°	1028.9	1031.3	1055.6	1087.2	1108.2
40°	948.8	950.4	972.2	1002.2	1020.8
42.5°	865.4	866.2	889.7	912.3	928.5
45°	777.9	786.9	806.3	825.7	835.4
47.5°	699.4	705.9	723.7	740.7	749.6
50°	617.7	633.9	646.0	654.9	665.4
52.5°	547.2	561.0	564.2	574.8	583.7
55°	479.2	488.9	485.7	494.6	503.5
57.5°	421.8	416.9	406.4	421.8	433.1
60°	367.5	354.6	336.8	357.8	374.8
62.5°	319.0	297.9	276.0	297.1	325.4
65°	276.0	254.2	227.5	247.7	277.7
67.5°	243.7	221.0	189.4	209.7	239.6
70°	219.4	195.9	163.5	180.5	207.2
72.5°	200.0	174.9	146.5	157.9	180.5
75°	181.3	156.2	136.0	139.2	160.3
77.5°	159.5	140.9	124.7	123.0	139.2
80°	133.6	127.9	108.5	106.0	115.0
82.5°	110.1	107.7	89.0	86.6	89.9
85°	80.1	83.4	63.1	61.5	64.8
87.5°	42.1	46.1	33.2	34.8	35.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)