

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: P292502

Luminaire Tested: **22GR-LD5-40-A125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292502
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-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3584.0 lumens
Efficiency: N/A
Efficacy: 109.5 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

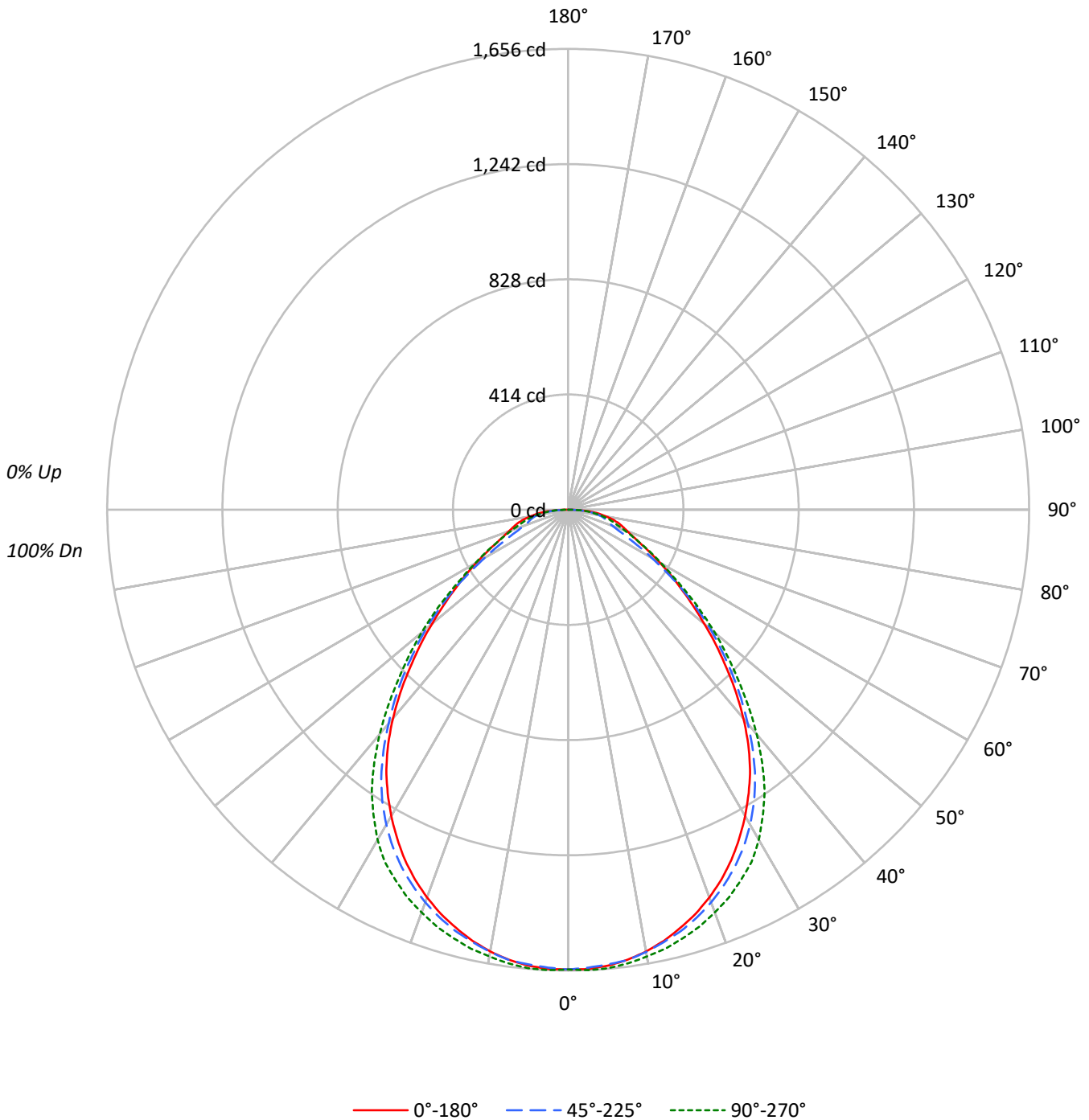
Input Watts (W): 32.736
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4445	4445	4445
5°	4442	4431	4467
10°	4405	4409	4455
15°	4335	4365	4440
20°	4245	4300	4410
25°	4121	4206	4359
30°	3949	4061	4256
35°	3742	3846	4041
40°	3440	3525	3701
45°	3056	3167	3282
50°	2669	2792	2876
55°	2321	2352	2439
60°	2042	1871	2082
65°	1815	1495	1825
70°	1782	1328	1683
75°	1946	1460	1721
80°	2137	1736	1839
85°	2553	2013	2066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	4.4
10°-20°	442.8	12.4
20°-30°	653.7	18.2
30°-40°	731.4	20.4
40°-50°	642.3	17.9
50°-60°	454.5	12.7
60°-70°	264.5	7.4
70°-80°	164.9	4.6
80°-90°	73.8	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°	1252.6	34.9
0°-40°	1984.0	55.4
0°-60°	3080.8	86.0
0°-90°	3584.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3584.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1652	1652	1652	1652	1652	
5°	1644	1640	1640	1649	1654	156
15°	1556	1559	1567	1584	1594	438
25°	1388	1394	1416	1450	1468	637
35°	1139	1144	1171	1206	1230	708
45°	803	812	832	852	862	621
55°	495	505	501	511	520	447
65°	285	262	235	256	287	289
75°	187	161	140	144	166	195
85°	83	86	65	64	67	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1652.0	1652.0	1652.0	1652.0	1652.0
2.5°	1652.0	1648.7	1647.0	1652.9	1656.2
5°	1644.5	1640.3	1640.3	1648.7	1653.7
7.5°	1631.2	1627.0	1632.0	1639.5	1644.5
10°	1611.9	1610.3	1613.6	1623.6	1630.3
12.5°	1586.9	1587.7	1591.0	1606.9	1615.3
15°	1555.9	1559.3	1566.8	1583.5	1593.6
17.5°	1522.5	1525.0	1536.7	1555.9	1570.2
20°	1482.4	1487.4	1501.6	1525.9	1540.1
22.5°	1438.1	1444.0	1461.5	1490.8	1508.3
25°	1388.0	1393.8	1416.4	1449.8	1468.2
27.5°	1331.2	1340.4	1365.4	1402.2	1427.3
30°	1271.0	1278.5	1306.9	1348.7	1369.6
32.5°	1206.7	1215.8	1242.6	1282.7	1301.1
35°	1139.0	1144.0	1170.7	1205.8	1230.1
37.5°	1062.1	1064.6	1089.7	1122.3	1144.0
40°	979.4	981.0	1003.6	1034.5	1053.7
42.5°	893.3	894.1	918.4	941.8	958.5
45°	803.0	812.2	832.3	852.3	862.4
47.5°	722.0	728.7	747.1	764.6	773.8
50°	637.6	654.3	666.8	676.0	686.9
52.5°	564.9	579.1	582.4	593.3	602.5
55°	494.7	504.7	501.4	510.6	519.8
57.5°	435.4	430.4	419.5	435.4	447.1
60°	379.4	366.0	347.6	369.3	386.9
62.5°	329.2	307.5	285.0	306.7	335.9
65°	285.0	262.4	234.8	255.7	286.6
67.5°	251.5	228.1	195.5	216.4	247.3
70°	226.5	202.2	168.8	186.3	213.9
72.5°	206.4	180.5	151.2	162.9	186.3
75°	187.2	161.3	140.4	143.7	165.5
77.5°	164.6	145.4	128.7	127.0	143.7
80°	137.9	132.0	112.0	109.5	118.7
82.5°	113.6	111.1	91.9	89.4	92.8
85°	82.7	86.1	65.2	63.5	66.9
87.5°	43.5	47.6	34.3	35.9	36.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)