

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: P292404

Luminaire Tested: **22GR-LD5-40-A125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292404
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-L82765-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4051.0 lumens
Efficiency: N/A
Efficacy: 123.7 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

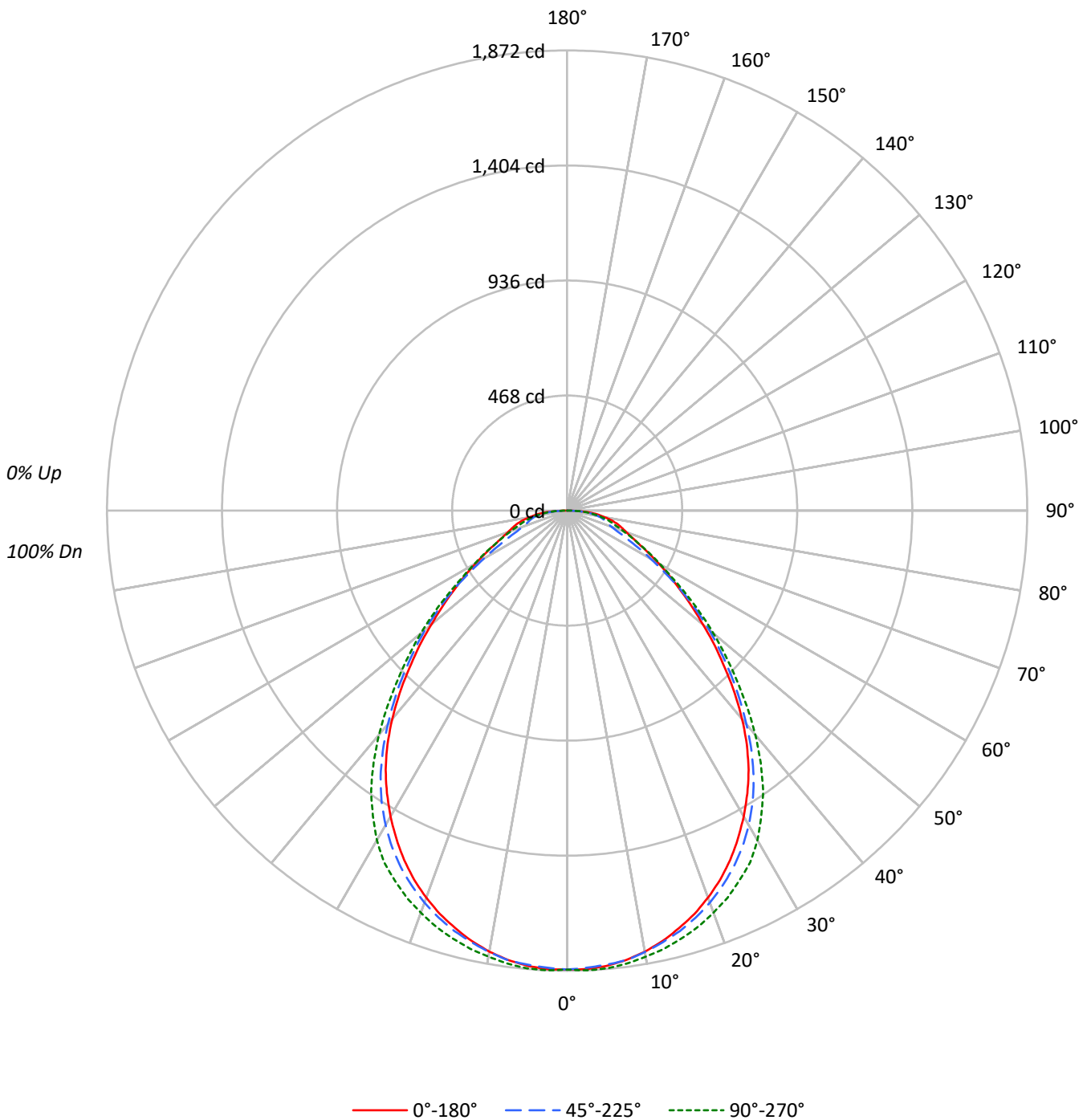
Input Watts (W): 32.736
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	5025	5025	5025
5°	5021	5008	5049
10°	4979	4984	5035
15°	4900	4934	5018
20°	4798	4861	4985
25°	4658	4754	4927
30°	4464	4590	4810
35°	4229	4347	4567
40°	3889	3985	4184
45°	3454	3580	3709
50°	3017	3155	3250
55°	2624	2659	2756
60°	2308	2115	2354
65°	2051	1690	2063
70°	2014	1501	1902
75°	2200	1650	1944
80°	2414	1962	2078
85°	2887	2276	2334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.5	4.4
10°-20°	500.5	12.4
20°-30°	738.8	18.2
30°-40°	826.7	20.4
40°-50°	726.0	17.9
50°-60°	513.7	12.7
60°-70°	299.0	7.4
70°-80°	186.4	4.6
80°-90°	83.4	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°	1415.8	34.9
0°-40°	2242.5	55.4
0°-60°	3482.2	86.0
0°-90°	4051.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4051.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1867	1867	1867	1867	1867	
5°	1859	1854	1854	1864	1869	176
15°	1759	1762	1771	1790	1801	496
25°	1569	1576	1601	1639	1660	721
35°	1287	1293	1323	1363	1390	801
45°	908	918	941	963	975	702
55°	559	570	567	577	588	505
65°	322	297	265	289	324	327
75°	212	182	159	162	187	221
85°	94	97	74	72	76	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1867.3	1867.3	1867.3	1867.3	1867.3
2.5°	1867.3	1863.5	1861.6	1868.3	1872.0
5°	1858.8	1854.1	1854.1	1863.5	1869.2
7.5°	1843.7	1839.0	1844.6	1853.1	1858.8
10°	1822.0	1820.1	1823.9	1835.2	1842.8
12.5°	1793.6	1794.6	1798.4	1816.3	1825.8
15°	1758.7	1762.5	1771.0	1789.9	1801.2
17.5°	1720.9	1723.7	1737.0	1758.7	1774.7
20°	1675.6	1681.2	1697.3	1724.7	1740.7
22.5°	1625.5	1632.1	1652.0	1685.0	1704.9
25°	1568.8	1575.5	1601.0	1638.7	1659.5
27.5°	1504.6	1515.0	1543.3	1584.9	1613.2
30°	1436.6	1445.1	1477.2	1524.5	1548.1
32.5°	1363.9	1374.3	1404.5	1449.8	1470.6
35°	1287.4	1293.0	1323.3	1362.9	1390.3
37.5°	1200.5	1203.3	1231.7	1268.5	1293.0
40°	1107.0	1108.9	1134.4	1169.3	1191.0
42.5°	1009.7	1010.6	1038.0	1064.5	1083.4
45°	907.7	918.1	940.7	963.4	974.7
47.5°	816.1	823.6	844.4	864.2	874.6
50°	720.7	739.6	753.7	764.1	776.4
52.5°	638.5	654.6	658.3	670.6	681.0
55°	559.2	570.5	566.7	577.1	587.5
57.5°	492.1	486.4	474.1	492.1	505.3
60°	428.8	413.7	392.9	417.5	437.3
62.5°	372.1	347.6	322.1	346.6	379.7
65°	322.1	296.6	265.4	289.0	324.0
67.5°	284.3	257.9	221.0	244.6	279.6
70°	256.0	228.6	190.8	210.6	241.8
72.5°	233.3	204.0	171.0	184.2	210.6
75°	211.6	182.3	158.7	162.5	187.0
77.5°	186.1	164.3	145.5	143.6	162.5
80°	155.8	149.2	126.6	123.7	134.1
82.5°	128.5	125.6	103.9	101.1	104.8
85°	93.5	97.3	73.7	71.8	75.6
87.5°	49.1	53.8	38.7	40.6	41.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)