

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: P292343

Luminaire Tested: **22GR-LD5-36-A125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292343
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-LD5-36-A125-UNV-L83050-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: 3780.0 lumens
Efficiency: N/A
Efficacy: 131.5 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

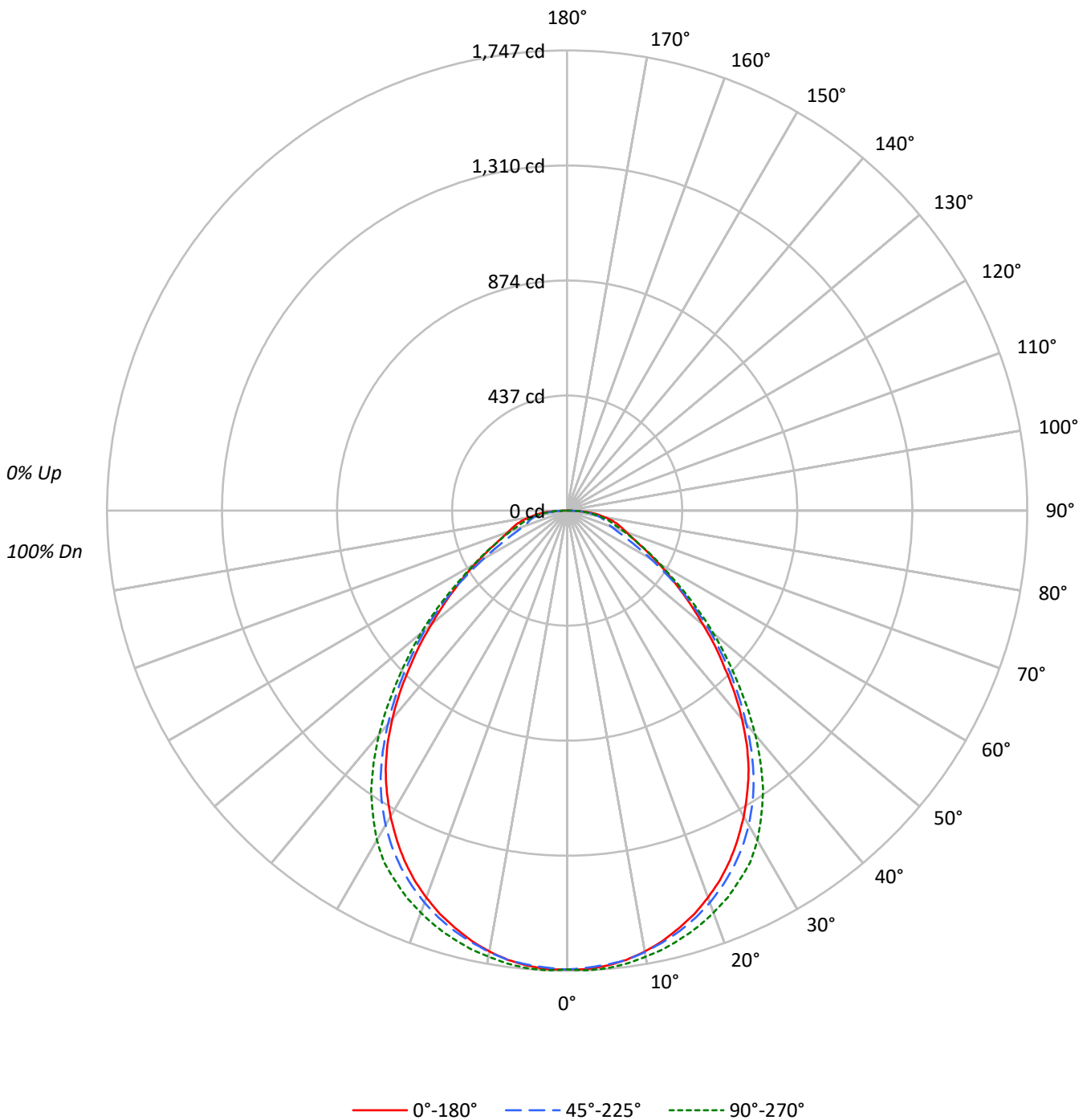
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
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°	4689	4689	4689
5°	4685	4673	4712
10°	4646	4650	4699
15°	4572	4604	4682
20°	4477	4535	4651
25°	4347	4436	4598
30°	4165	4283	4488
35°	3946	4056	4262
40°	3628	3718	3904
45°	3223	3341	3461
50°	2815	2944	3033
55°	2448	2481	2572
60°	2153	1973	2196
65°	1913	1577	1925
70°	1879	1400	1775
75°	2052	1540	1814
80°	2253	1830	1939
85°	2695	2121	2177



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.7	4.4
10°-20°	467.0	12.4
20°-30°	689.4	18.2
30°-40°	771.4	20.4
40°-50°	677.4	17.9
50°-60°	479.3	12.7
60°-70°	279.0	7.4
70°-80°	173.9	4.6
80°-90°	77.8	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°	1321.1	34.9
0°-40°	2092.5	55.4
0°-60°	3249.3	86.0
0°-90°	3780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3780.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1742	1742	1742	1742	1742	
5°	1734	1730	1730	1739	1744	164
15°	1641	1645	1652	1670	1681	462
25°	1464	1470	1494	1529	1548	672
35°	1201	1206	1235	1272	1297	747
45°	847	857	878	899	910	655
55°	522	532	529	538	548	472
65°	300	277	248	270	302	305
75°	197	170	148	152	174	206
85°	87	91	69	67	70	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1742.4	1742.4	1742.4	1742.4	1742.4
2.5°	1742.4	1738.9	1737.1	1743.3	1746.8
5°	1734.5	1730.1	1730.1	1738.9	1744.2
7.5°	1720.4	1716.0	1721.2	1729.2	1734.5
10°	1700.1	1698.3	1701.9	1712.4	1719.5
12.5°	1673.6	1674.5	1678.1	1694.8	1703.6
15°	1641.0	1644.6	1652.5	1670.1	1680.7
17.5°	1605.8	1608.4	1620.8	1641.0	1656.0
20°	1563.5	1568.8	1583.8	1609.3	1624.3
22.5°	1516.8	1522.9	1541.4	1572.3	1590.8
25°	1463.9	1470.1	1493.9	1529.1	1548.5
27.5°	1404.0	1413.7	1440.1	1478.9	1505.3
30°	1340.5	1348.4	1378.4	1422.5	1444.5
32.5°	1272.6	1282.3	1310.5	1352.8	1372.2
35°	1201.3	1206.5	1234.7	1271.8	1297.3
37.5°	1120.2	1122.8	1149.3	1183.6	1206.5
40°	1032.9	1034.7	1058.5	1091.1	1111.4
42.5°	942.1	943.0	968.6	993.3	1010.9
45°	847.0	856.7	877.8	899.0	909.5
47.5°	761.5	768.5	787.9	806.4	816.1
50°	672.5	690.1	703.3	713.0	724.5
52.5°	595.8	610.8	614.3	625.7	635.4
55°	521.7	532.3	528.8	538.5	548.2
57.5°	459.2	453.9	442.4	459.2	471.5
60°	400.1	386.0	366.6	389.5	408.1
62.5°	347.2	324.3	300.5	323.4	354.3
65°	300.5	276.7	247.7	269.7	302.3
67.5°	265.3	240.6	206.2	228.3	260.9
70°	238.8	213.3	178.0	196.5	225.6
72.5°	217.7	190.4	159.5	171.9	196.5
75°	197.4	170.1	148.1	151.6	174.5
77.5°	173.6	153.4	135.7	134.0	151.6
80°	145.4	139.3	118.1	115.5	125.1
82.5°	119.9	117.2	96.9	94.3	97.8
85°	87.3	90.8	68.7	67.0	70.5
87.5°	45.8	50.2	36.1	37.9	38.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)