

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: P476089

Luminaire Tested: **22GR-LD5-36-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476089
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-36-A125-UNV-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3697.7 lumens
Efficiency: N/A
Efficacy: 129.7 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

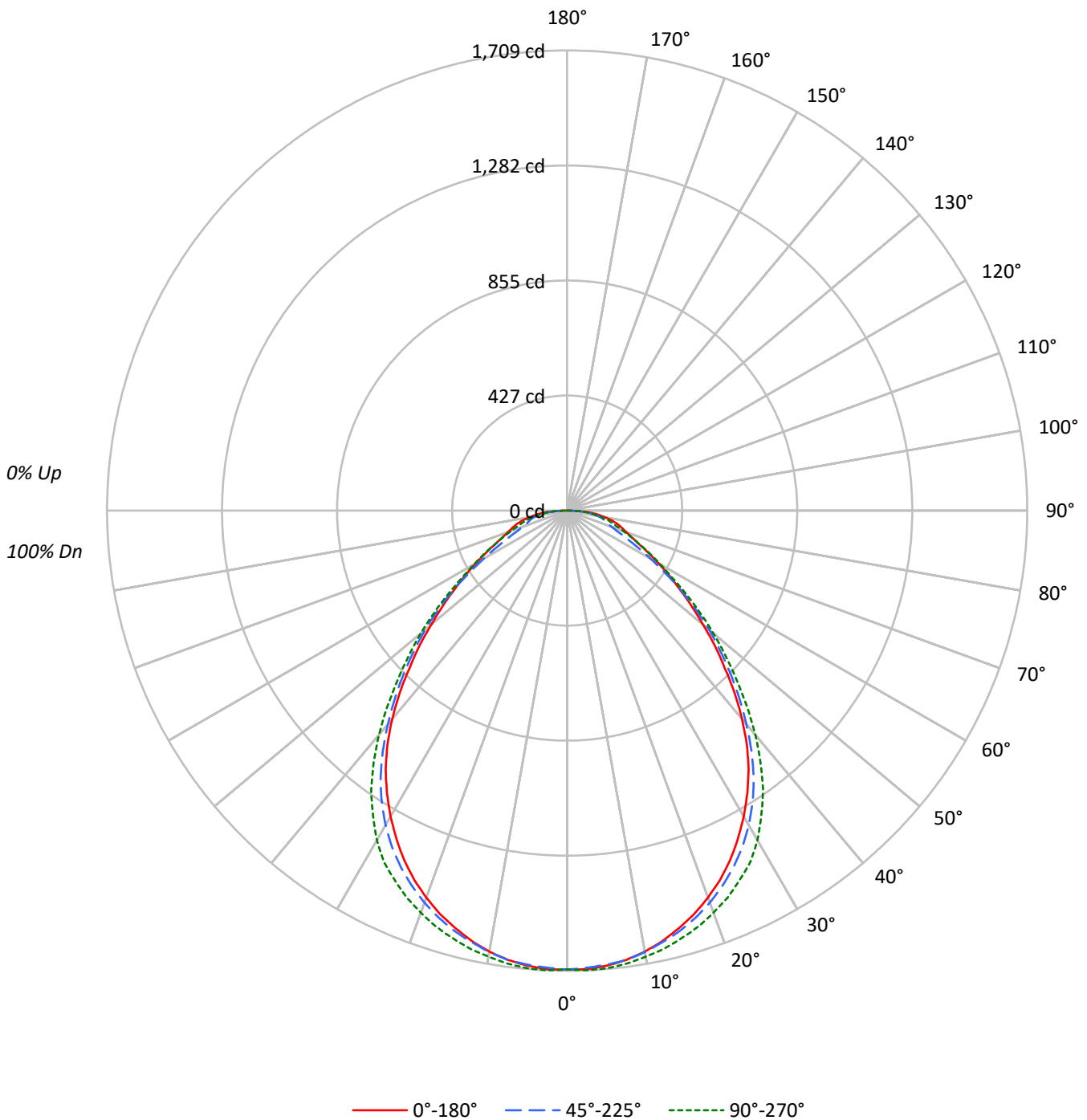
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4587	4587	4587
5°	4583	4572	4609
10°	4545	4549	4596
15°	4472	4504	4580
20°	4380	4437	4550
25°	4252	4339	4498
30°	4075	4190	4391
35°	3860	3968	4169
40°	3550	3637	3819
45°	3153	3268	3385
50°	2754	2880	2967
55°	2394	2427	2516
60°	2106	1930	2148
65°	1872	1543	1882
70°	1838	1370	1737
75°	2009	1507	1774
80°	2205	1788	1898
85°	2634	2078	2127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.1	4.4
10°-20°	456.8	12.4
20°-30°	674.4	18.2
30°-40°	754.6	20.4
40°-50°	662.7	17.9
50°-60°	468.9	12.7
60°-70°	273.0	7.4
70°-80°	170.1	4.6
80°-90°	76.1	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°	1292.3	34.9
0°-40°	2047.0	55.4
0°-60°	3178.6	86.0
0°-90°	3697.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3697.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1704	1704	1704	1704	1704	
5°	1697	1692	1692	1701	1706	161
15°	1605	1609	1617	1634	1644	452
25°	1432	1438	1461	1496	1515	658
35°	1175	1180	1208	1244	1269	731
45°	828	838	859	879	890	641
55°	510	521	517	527	536	461
65°	294	271	242	264	296	298
75°	193	166	145	148	171	202
85°	85	89	67	66	69	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1704.5	1704.5	1704.5	1704.5	1704.5
2.5°	1704.5	1701.0	1699.2	1705.4	1708.8
5°	1696.7	1692.4	1692.4	1701.0	1706.3
7.5°	1683.0	1678.7	1683.7	1691.5	1696.7
10°	1663.2	1661.4	1664.8	1675.3	1682.1
12.5°	1637.2	1638.1	1641.5	1657.9	1666.6
15°	1605.2	1608.7	1616.6	1633.8	1644.0
17.5°	1570.8	1573.5	1585.4	1605.2	1620.1
20°	1529.5	1534.5	1549.4	1574.2	1589.0
22.5°	1483.7	1489.8	1507.8	1538.2	1556.2
25°	1432.1	1438.0	1461.3	1495.7	1514.9
27.5°	1373.5	1382.8	1408.8	1446.7	1472.5
30°	1311.4	1319.2	1348.4	1391.5	1413.2
32.5°	1245.0	1254.4	1282.0	1323.3	1342.5
35°	1175.0	1180.3	1207.9	1244.1	1269.0
37.5°	1095.9	1098.4	1124.1	1157.9	1180.3
40°	1010.5	1012.1	1035.4	1067.3	1087.2
42.5°	921.6	922.5	947.6	971.5	988.9
45°	828.5	838.1	858.6	879.4	889.6
47.5°	744.8	751.9	770.8	788.8	798.4
50°	657.9	675.0	688.0	697.6	708.8
52.5°	582.8	597.4	600.9	612.0	621.6
55°	510.3	520.8	517.4	526.7	536.3
57.5°	449.2	443.9	432.7	449.2	461.2
60°	391.4	377.5	358.6	381.2	399.2
62.5°	339.7	317.3	294.0	316.4	346.5
65°	294.0	270.8	242.3	263.9	295.6
67.5°	259.6	235.4	201.7	223.3	255.3
70°	233.6	208.7	174.1	192.3	220.8
72.5°	213.1	186.1	156.0	168.1	192.3
75°	193.2	166.3	144.9	148.3	170.6
77.5°	169.9	150.1	132.8	130.9	148.3
80°	142.3	136.2	115.4	112.9	122.5
82.5°	117.3	114.7	94.9	92.2	95.8
85°	85.3	88.7	67.3	65.5	68.9
87.5°	44.9	49.0	35.4	37.2	37.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)