

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: P291951

Luminaire Tested: **22GR-LD5-36-F125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-36-F125-UNV-L83050-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3799.0 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

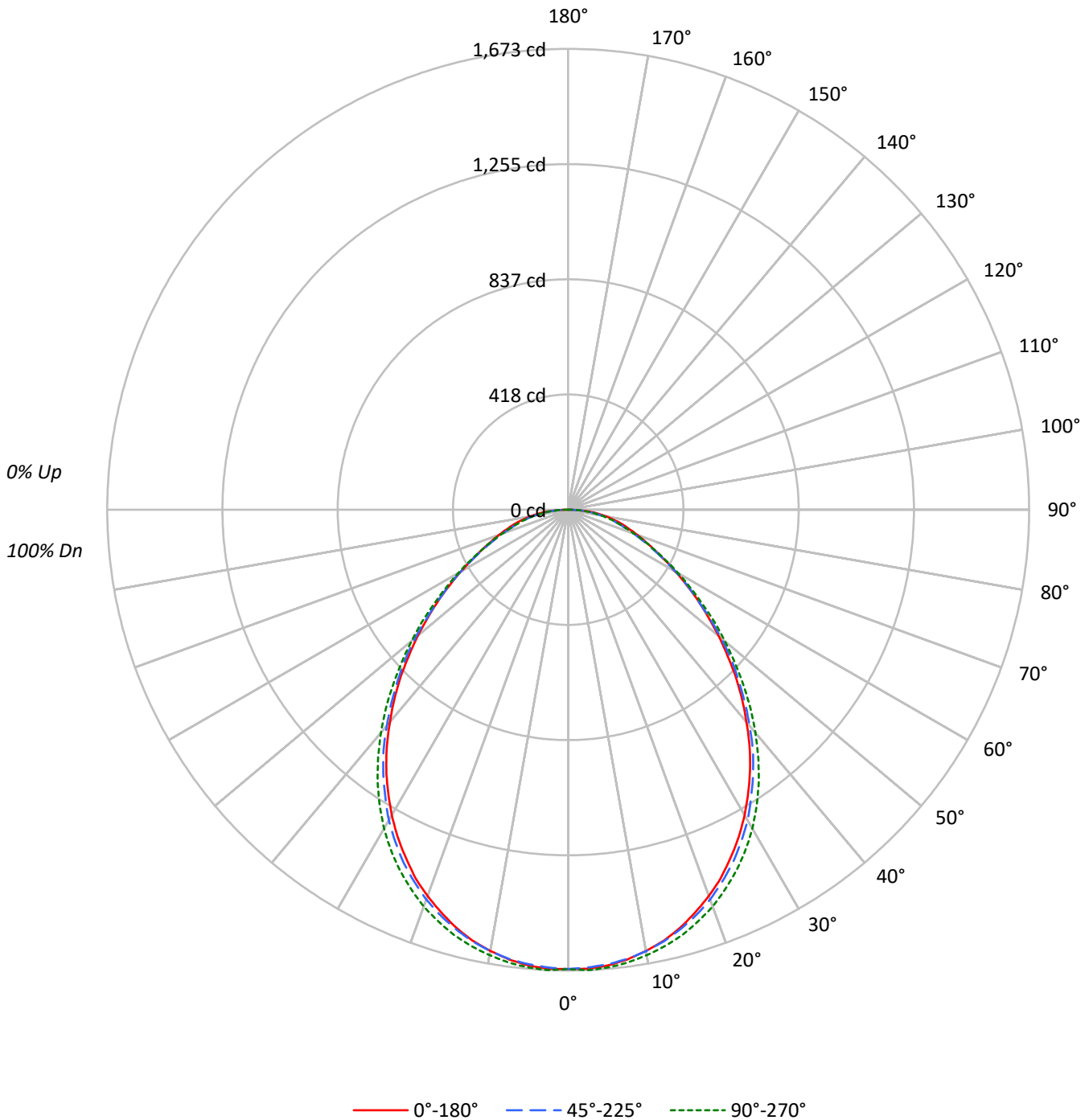
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291951

CATALOG NUMBER: 22GR-LD5-36-F125-UNV-L83050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P291951

CATALOG NUMBER: 22GR-LD5-36-F125-UNV-L83050-W2A1-U-4000K

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	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62					62			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54					54			
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48					48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42					42			
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4488	4488	4488
5°	4486	4474	4505
10°	4444	4446	4487
15°	4376	4391	4455
20°	4274	4312	4390
25°	4141	4198	4290
30°	3977	4046	4152
35°	3782	3843	3961
40°	3536	3595	3713
45°	3274	3325	3422
50°	2982	3030	3107
55°	2692	2700	2779
60°	2415	2424	2481
65°	2200	2155	2206
70°	2094	1976	2011
75°	2108	1906	1915
80°	2185	1926	1912
85°	2396	2041	1933



TEST NUMBER: P291951

CATALOG NUMBER: 22GR-LD5-36-F125-UNV-L83050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.6	4.1
10°-20°	445.1	11.7
20°-30°	651.5	17.1
30°-40°	732.5	19.3
40°-50°	675.5	17.8
50°-60°	520.6	13.7
60°-70°	343.5	9.0
70°-80°	199.9	5.3
80°-90°	72.8	1.9
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°	1254.1	33.0
0°-40°	1986.6	52.3
0°-60°	3182.7	83.8
0°-90°	3799.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3799.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1668	1668	1668	1668	1668	
5°	1661	1657	1656	1664	1668	157
15°	1571	1571	1576	1590	1599	442
25°	1394	1402	1414	1433	1445	641
35°	1151	1156	1170	1194	1206	718
45°	860	861	874	891	899	662
55°	574	573	576	585	592	515
65°	346	344	338	341	346	347
75°	203	194	183	180	184	214
85°	78	77	66	61	63	82
90°	0	0	0	0	0	



TEST NUMBER: P291951

CATALOG NUMBER: 22GR-LD5-36-F125-UNV-L83050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1667.8	1667.8	1667.8	1667.8	1667.8
2.5°	1667.8	1664.3	1663.4	1669.5	1673.1
5°	1660.7	1657.2	1656.3	1664.3	1667.8
7.5°	1646.6	1644.0	1644.9	1653.7	1658.1
10°	1626.3	1625.5	1627.2	1636.9	1642.2
12.5°	1602.5	1601.7	1605.2	1615.8	1622.8
15°	1570.8	1570.8	1576.1	1590.2	1599.0
17.5°	1532.9	1535.6	1543.5	1557.6	1567.3
20°	1492.4	1495.0	1505.6	1521.4	1532.9
22.5°	1447.4	1450.9	1461.5	1480.9	1490.6
25°	1394.5	1401.6	1413.9	1433.3	1444.8
27.5°	1339.9	1347.8	1359.3	1383.1	1393.6
30°	1279.9	1285.2	1302.0	1324.0	1336.3
32.5°	1216.5	1221.7	1235.8	1262.3	1272.9
35°	1151.2	1156.5	1169.7	1193.5	1205.9
37.5°	1080.7	1085.1	1101.0	1119.5	1132.7
40°	1006.7	1012.8	1023.4	1045.4	1056.9
42.5°	934.4	937.0	948.5	970.5	979.3
45°	860.3	861.2	873.6	891.2	899.1
47.5°	783.6	785.4	800.4	811.0	818.9
50°	712.2	713.1	723.7	733.4	742.2
52.5°	640.8	640.8	646.1	656.7	668.2
55°	573.8	573.0	575.6	585.3	592.4
57.5°	510.4	509.5	513.0	519.2	524.5
60°	448.7	446.9	450.4	454.0	461.0
62.5°	394.0	395.8	391.4	396.7	402.0
65°	345.5	343.8	338.5	341.1	346.4
67.5°	304.1	301.5	292.7	294.4	300.6
70°	266.2	260.9	251.2	251.2	255.6
72.5°	231.8	226.5	214.2	215.1	216.8
75°	202.7	193.9	183.3	179.8	184.2
77.5°	171.0	164.0	154.3	151.6	153.4
80°	141.0	135.7	124.3	120.8	123.4
82.5°	111.9	107.5	94.3	91.7	92.6
85°	77.6	76.7	66.1	60.8	62.6
87.5°	41.4	42.3	34.4	30.9	32.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)