

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: P292008

Luminaire Tested: **22GR-LD5-36-F125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292008
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-L82765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3782.0 lumens
Efficiency: N/A
Efficacy: 129.1 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

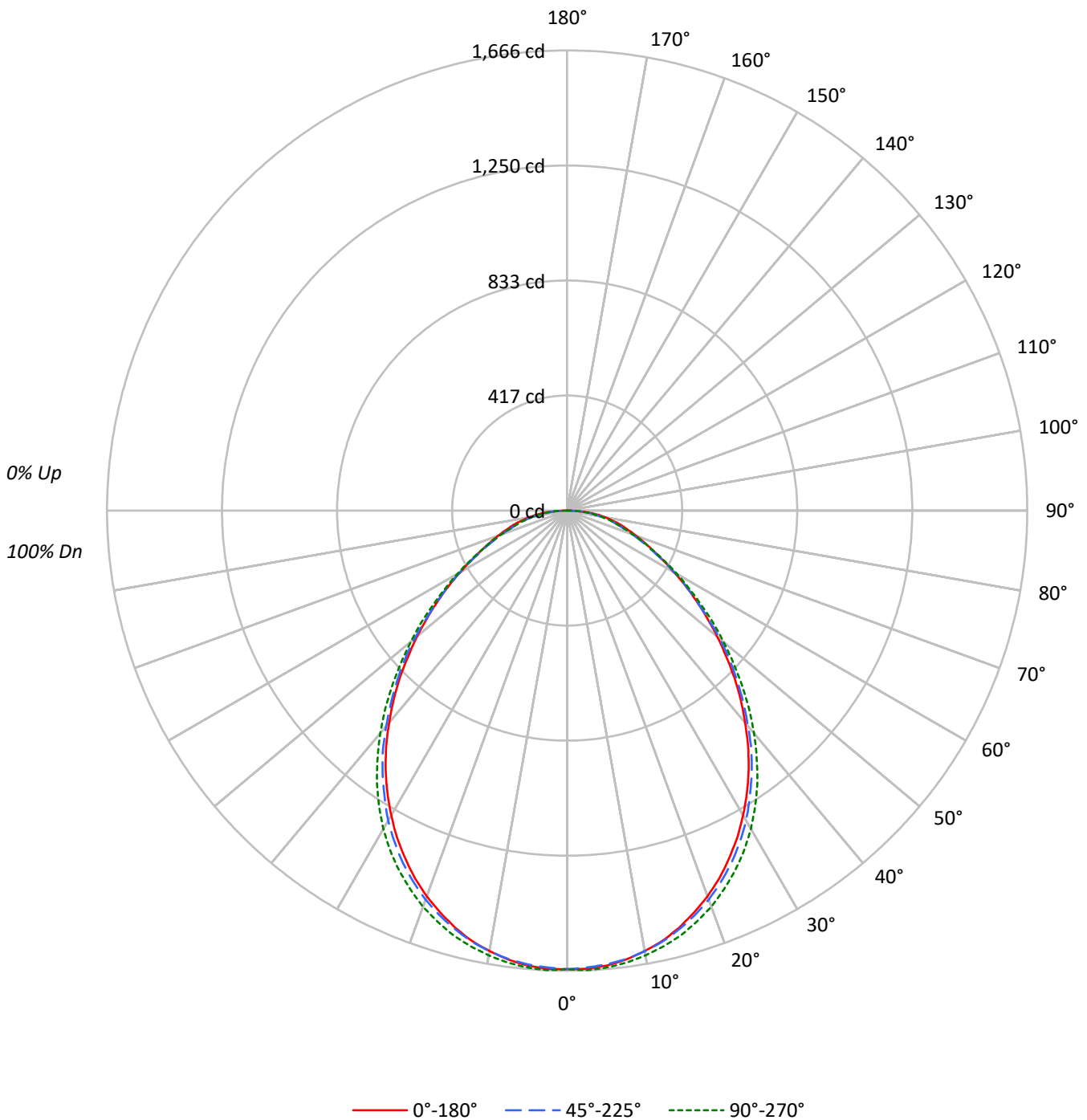
Input Watts (W): 29.295
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4468	4468	4468
5°	4466	4454	4485
10°	4424	4426	4467
15°	4357	4371	4435
20°	4255	4292	4370
25°	4122	4179	4271
30°	3959	4027	4134
35°	3765	3825	3944
40°	3521	3579	3696
45°	3260	3309	3406
50°	2969	3016	3093
55°	2680	2688	2767
60°	2404	2413	2470
65°	2190	2146	2196
70°	2085	1968	2002
75°	2098	1897	1907
80°	2176	1917	1905
85°	2384	2032	1924



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.9	4.1
10°-20°	443.1	11.7
20°-30°	648.6	17.1
30°-40°	729.2	19.3
40°-50°	672.5	17.8
50°-60°	518.3	13.7
60°-70°	342.0	9.0
70°-80°	199.0	5.3
80°-90°	72.5	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°	1248.5	33.0
0°-40°	1977.7	52.3
0°-60°	3168.4	83.8
0°-90°	3782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3782.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1660	1660	1660	1660	1660	
5°	1653	1650	1649	1657	1660	157
15°	1564	1564	1569	1583	1592	440
25°	1388	1395	1408	1427	1438	639
35°	1146	1151	1164	1188	1200	715
45°	856	857	870	887	895	659
55°	571	570	573	583	590	513
65°	344	342	337	340	345	345
75°	202	193	182	179	183	213
85°	77	76	66	61	62	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1660.3	1660.3	1660.3	1660.3	1660.3
2.5°	1660.3	1656.8	1655.9	1662.1	1665.6
5°	1653.3	1649.8	1648.9	1656.8	1660.3
7.5°	1639.3	1636.6	1637.5	1646.3	1650.7
10°	1619.1	1618.2	1619.9	1629.6	1634.9
12.5°	1595.4	1594.5	1598.0	1608.5	1615.6
15°	1563.8	1563.8	1569.0	1583.1	1591.9
17.5°	1526.0	1528.7	1536.6	1550.6	1560.3
20°	1485.7	1488.3	1498.8	1514.6	1526.0
22.5°	1440.9	1444.4	1455.0	1474.3	1483.9
25°	1388.3	1395.3	1407.6	1426.9	1438.3
27.5°	1333.9	1341.8	1353.2	1376.9	1387.4
30°	1274.2	1279.5	1296.1	1318.1	1330.4
32.5°	1211.0	1216.3	1230.3	1256.6	1267.2
35°	1146.1	1151.3	1164.5	1188.2	1200.5
37.5°	1075.9	1080.3	1096.1	1114.5	1127.6
40°	1002.2	1008.3	1018.8	1040.8	1052.2
42.5°	930.2	932.8	944.2	966.2	975.0
45°	856.5	857.4	869.6	887.2	895.1
47.5°	780.1	781.9	796.8	807.3	815.2
50°	709.1	709.9	720.5	730.1	738.9
52.5°	638.0	638.0	643.2	653.8	665.2
55°	571.3	570.4	573.0	582.7	589.7
57.5°	508.1	507.2	510.7	516.9	522.1
60°	446.7	444.9	448.4	451.9	459.0
62.5°	392.3	394.0	389.6	394.9	400.2
65°	344.0	342.2	337.0	339.6	344.9
67.5°	302.8	300.1	291.3	293.1	299.2
70°	265.0	259.8	250.1	250.1	254.5
72.5°	230.8	225.5	213.2	214.1	215.9
75°	201.8	193.1	182.5	179.0	183.4
77.5°	170.2	163.2	153.6	150.9	152.7
80°	140.4	135.1	123.7	120.2	122.9
82.5°	111.4	107.1	93.9	91.3	92.1
85°	77.2	76.3	65.8	60.6	62.3
87.5°	41.2	42.1	34.2	30.7	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)