

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: P292004

Luminaire Tested: **22GR-LD5-36-F125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292004
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-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3675.0 lumens
Efficiency: N/A
Efficacy: 128.3 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

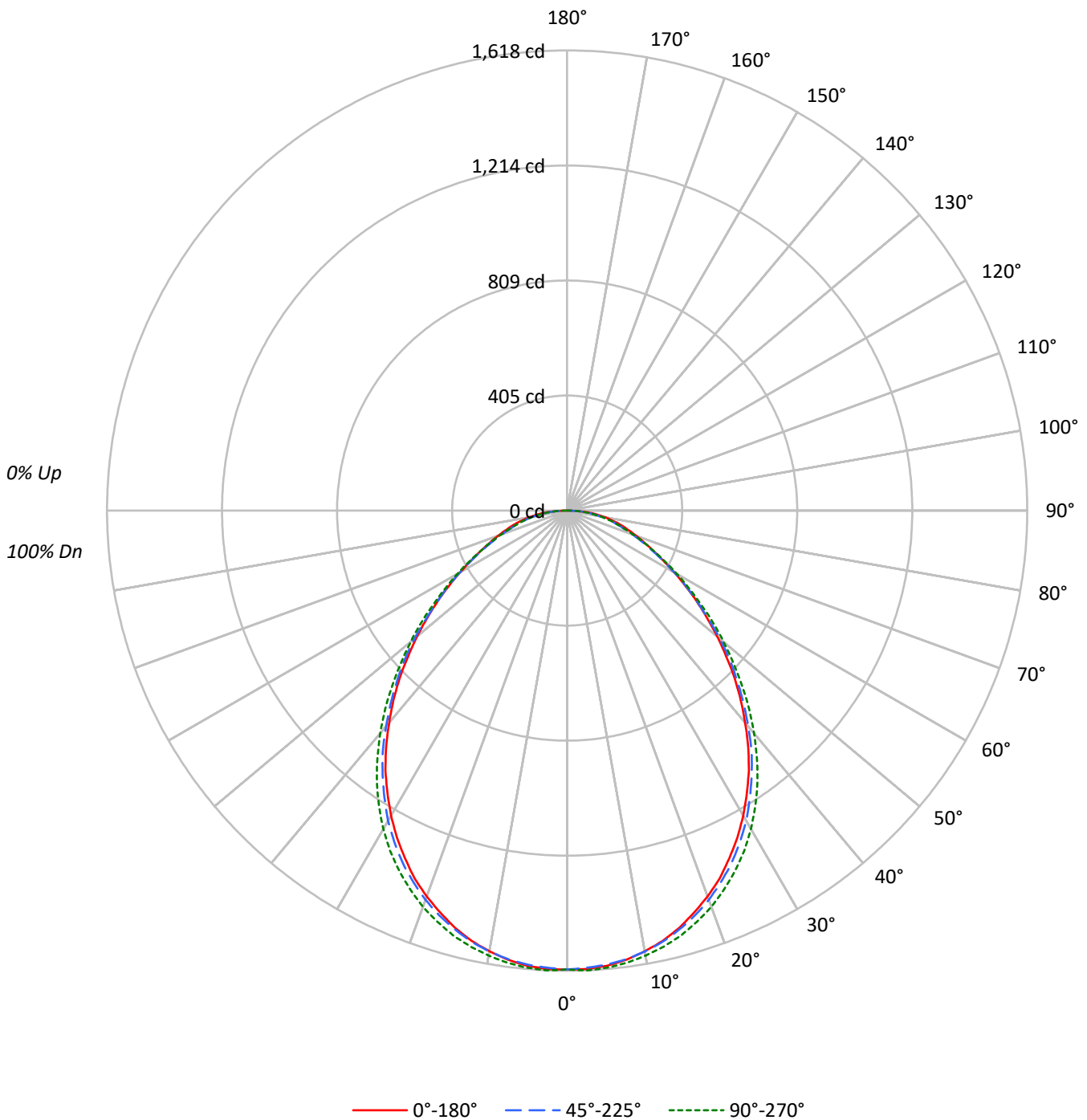
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4341	4341	4341
5°	4340	4328	4358
10°	4299	4301	4341
15°	4233	4248	4309
20°	4134	4171	4247
25°	4005	4061	4150
30°	3847	3914	4017
35°	3658	3717	3832
40°	3421	3478	3592
45°	3167	3216	3310
50°	2884	2931	3006
55°	2604	2612	2688
60°	2336	2345	2400
65°	2129	2085	2134
70°	2026	1912	1946
75°	2039	1844	1853
80°	2114	1863	1850
85°	2316	1976	1868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.4	4.1
10°-20°	430.6	11.7
20°-30°	630.2	17.1
30°-40°	708.6	19.3
40°-50°	653.4	17.8
50°-60°	503.6	13.7
60°-70°	332.3	9.0
70°-80°	193.4	5.3
80°-90°	70.5	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°	1213.2	33.0
0°-40°	1921.7	52.3
0°-60°	3078.8	83.8
0°-90°	3675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3675.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1613	1613	1613	1613	1613	
5°	1606	1603	1602	1610	1613	152
15°	1520	1520	1525	1538	1547	428
25°	1349	1356	1368	1386	1398	620
35°	1114	1119	1132	1155	1166	694
45°	832	833	845	862	870	641
55°	555	554	557	566	573	498
65°	334	333	327	330	335	335
75°	196	188	177	174	178	207
85°	75	74	64	59	60	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1613.3	1613.3	1613.3	1613.3	1613.3
2.5°	1613.3	1609.9	1609.1	1615.0	1618.5
5°	1606.5	1603.1	1602.3	1609.9	1613.3
7.5°	1592.9	1590.3	1591.2	1599.7	1604.0
10°	1573.3	1572.4	1574.1	1583.5	1588.6
12.5°	1550.2	1549.4	1552.8	1563.0	1569.9
15°	1519.5	1519.5	1524.7	1538.3	1546.8
17.5°	1482.9	1485.4	1493.1	1506.8	1516.1
20°	1443.6	1446.2	1456.4	1471.8	1482.9
22.5°	1400.2	1403.6	1413.8	1432.6	1441.9
25°	1349.0	1355.8	1367.8	1386.5	1397.6
27.5°	1296.1	1303.8	1314.9	1337.9	1348.1
30°	1238.1	1243.3	1259.5	1280.8	1292.7
32.5°	1176.7	1181.9	1195.5	1221.1	1231.3
35°	1113.6	1118.8	1131.6	1154.6	1166.5
37.5°	1045.4	1049.7	1065.0	1083.0	1095.7
40°	973.8	979.8	990.0	1011.3	1022.4
42.5°	903.9	906.4	917.5	938.8	947.4
45°	832.3	833.1	845.0	862.1	869.8
47.5°	758.1	759.8	774.3	784.5	792.2
50°	689.0	689.8	700.1	709.5	718.0
52.5°	619.9	619.9	625.0	635.3	646.4
55°	555.1	554.3	556.8	566.2	573.0
57.5°	493.7	492.9	496.3	502.3	507.4
60°	434.0	432.3	435.7	439.1	446.0
62.5°	381.2	382.9	378.6	383.7	388.8
65°	334.3	332.6	327.4	330.0	335.1
67.5°	294.2	291.6	283.1	284.8	290.8
70°	257.5	252.4	243.0	243.0	247.3
72.5°	224.3	219.1	207.2	208.1	209.8
75°	196.1	187.6	177.4	174.0	178.2
77.5°	165.4	158.6	149.2	146.7	148.4
80°	136.4	131.3	120.2	116.8	119.4
82.5°	108.3	104.0	91.2	88.7	89.5
85°	75.0	74.2	64.0	58.8	60.5
87.5°	40.1	40.9	33.3	29.8	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)