

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: P292007

Luminaire Tested: **22GR-LD5-36-F125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292007
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-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3772.0 lumens
Efficiency: N/A
Efficacy: 130.8 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

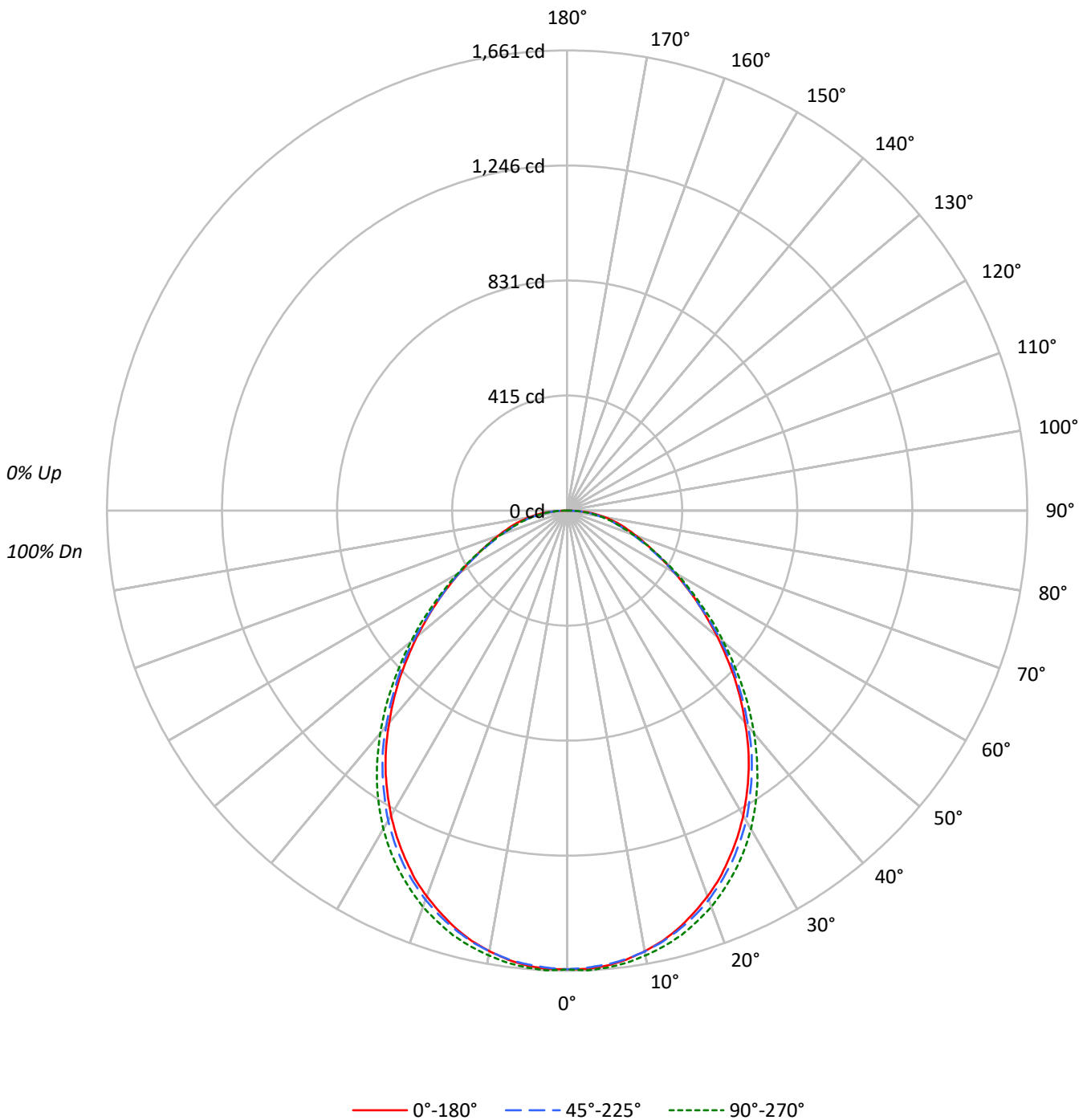
Input Watts (W): 28.83
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4456	4456	4456
5°	4454	4442	4473
10°	4412	4415	4455
15°	4345	4360	4423
20°	4243	4281	4359
25°	4111	4168	4259
30°	3949	4017	4123
35°	3755	3815	3933
40°	3511	3569	3686
45°	3251	3301	3397
50°	2961	3008	3085
55°	2673	2681	2760
60°	2398	2407	2463
65°	2185	2140	2190
70°	2079	1962	1997
75°	2093	1892	1902
80°	2170	1912	1898
85°	2377	2025	1917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.4	4.1
10°-20°	441.9	11.7
20°-30°	646.8	17.1
30°-40°	727.3	19.3
40°-50°	670.7	17.8
50°-60°	516.9	13.7
60°-70°	341.1	9.0
70°-80°	198.5	5.3
80°-90°	72.3	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°	1245.2	33.0
0°-40°	1972.5	52.3
0°-60°	3160.1	83.8
0°-90°	3772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3772.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1656	1656	1656	1656	1656	
5°	1649	1645	1644	1652	1656	156
15°	1560	1560	1565	1579	1588	439
25°	1385	1392	1404	1423	1434	637
35°	1143	1148	1161	1185	1197	713
45°	854	855	867	885	893	658
55°	570	569	572	581	588	511
65°	343	341	336	339	344	344
75°	201	192	182	178	183	212
85°	77	76	66	60	62	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1655.9	1655.9	1655.9	1655.9	1655.9
2.5°	1655.9	1652.4	1651.5	1657.7	1661.2
5°	1648.9	1645.4	1644.5	1652.4	1655.9
7.5°	1634.9	1632.3	1633.2	1641.9	1646.3
10°	1614.8	1613.9	1615.7	1625.3	1630.5
12.5°	1591.2	1590.3	1593.8	1604.3	1611.3
15°	1559.6	1559.6	1564.9	1578.9	1587.7
17.5°	1522.0	1524.6	1532.5	1546.5	1556.1
20°	1481.8	1484.4	1494.9	1510.6	1522.0
22.5°	1437.1	1440.6	1451.1	1470.4	1480.0
25°	1384.6	1391.6	1403.9	1423.1	1434.5
27.5°	1330.3	1338.2	1349.6	1373.2	1383.7
30°	1270.8	1276.1	1292.7	1314.6	1326.8
32.5°	1207.8	1213.1	1227.1	1253.3	1263.8
35°	1143.0	1148.3	1161.4	1185.1	1197.3
37.5°	1073.0	1077.4	1093.2	1111.5	1124.7
40°	999.5	1005.6	1016.1	1038.0	1049.4
42.5°	927.7	930.4	941.7	963.6	972.4
45°	854.2	855.1	867.3	884.9	892.7
47.5°	778.1	779.8	794.7	805.2	813.1
50°	707.2	708.1	718.6	728.2	736.9
52.5°	636.3	636.3	641.5	652.0	663.4
55°	569.8	568.9	571.5	581.1	588.2
57.5°	506.8	505.9	509.4	515.5	520.8
60°	445.5	443.7	447.2	450.7	457.7
62.5°	391.2	393.0	388.6	393.9	399.1
65°	343.1	341.3	336.1	338.7	344.0
67.5°	302.0	299.3	290.6	292.3	298.5
70°	264.3	259.1	249.4	249.4	253.8
72.5°	230.2	224.9	212.7	213.6	215.3
75°	201.3	192.5	182.0	178.5	182.9
77.5°	169.8	162.8	153.2	150.5	152.3
80°	140.0	134.8	123.4	119.9	122.5
82.5°	111.2	106.8	93.6	91.0	91.9
85°	77.0	76.1	65.6	60.4	62.1
87.5°	41.1	42.0	34.1	30.6	32.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)