

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: P292123

Luminaire Tested: **22GR-LD5-43-F125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292123  
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-LD5-43-F125-UNV-L92765-W2A1-U-5700K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4105.0 lumens  
Efficiency: N/A  
Efficacy: 113.2 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

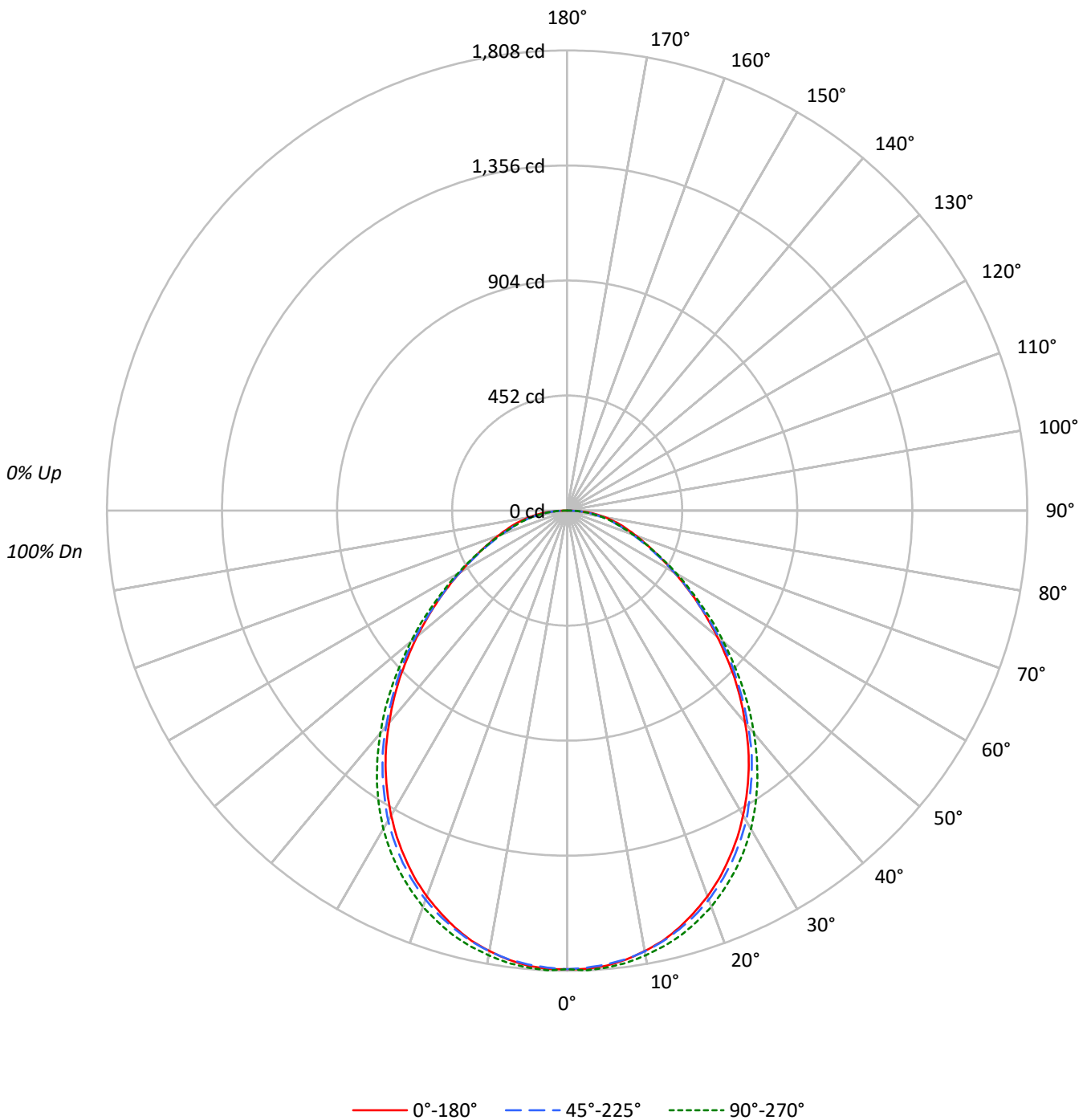
Input Watts (W): 36.27  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4849	4849	4849
5°	4847	4834	4868
10°	4802	4805	4849
15°	4729	4745	4813
20°	4618	4659	4743
25°	4474	4536	4635
30°	4297	4371	4487
35°	4087	4152	4280
40°	3821	3884	4012
45°	3538	3592	3697
50°	3222	3274	3358
55°	2909	2918	3003
60°	2609	2619	2681
65°	2378	2329	2383
70°	2264	2136	2173
75°	2278	2060	2070
80°	2362	2081	2066
85°	2587	2205	2087



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.3	4.1
10°-20°	480.9	11.7
20°-30°	703.9	17.1
30°-40°	791.5	19.3
40°-50°	729.9	17.8
50°-60°	562.5	13.7
60°-70°	371.2	9.0
70°-80°	216.1	5.3
80°-90°	78.7	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°	1355.1	33.0
0°-40°	2146.6	52.3
0°-60°	3439.1	83.8
0°-90°	4105.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4105.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1802	1802	1802	1802	1802	
5°	1794	1791	1790	1798	1802	170
15°	1697	1697	1703	1718	1728	478
25°	1507	1514	1528	1549	1561	693
35°	1244	1250	1264	1290	1303	776
45°	930	931	944	963	972	716
55°	620	619	622	632	640	556
65°	373	372	366	369	374	374
75°	219	210	198	194	199	231
85°	84	83	71	66	68	89
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1802.1	1802.1	1802.1	1802.1	1802.1
2.5°	1802.1	1798.3	1797.3	1804.0	1807.8
5°	1794.5	1790.7	1789.7	1798.3	1802.1
7.5°	1779.3	1776.4	1777.3	1786.9	1791.6
10°	1757.3	1756.4	1758.3	1768.8	1774.5
12.5°	1731.6	1730.7	1734.5	1745.9	1753.5
15°	1697.3	1697.3	1703.1	1718.3	1727.8
17.5°	1656.4	1659.2	1667.8	1683.1	1693.5
20°	1612.6	1615.4	1626.9	1644.0	1656.4
22.5°	1564.0	1567.8	1579.2	1600.2	1610.7
25°	1506.8	1514.5	1527.8	1548.7	1561.1
27.5°	1447.8	1456.4	1468.7	1494.5	1505.9
30°	1383.0	1388.7	1406.8	1430.6	1444.0
32.5°	1314.4	1320.2	1335.4	1364.0	1375.4
35°	1244.0	1249.7	1264.0	1289.7	1303.0
37.5°	1167.8	1172.5	1189.7	1209.7	1224.0
40°	1087.7	1094.4	1105.8	1129.7	1142.0
42.5°	1009.6	1012.5	1024.9	1048.7	1058.2
45°	929.6	930.6	943.9	963.0	971.5
47.5°	846.8	848.7	864.9	876.3	884.9
50°	769.6	770.6	782.0	792.5	802.0
52.5°	692.5	692.5	698.2	709.6	722.0
55°	620.1	619.1	622.0	632.5	640.1
57.5°	551.5	550.5	554.3	561.0	566.7
60°	484.8	482.9	486.7	490.5	498.2
62.5°	425.8	427.7	422.9	428.6	434.3
65°	373.4	371.5	365.8	368.6	374.3
67.5°	328.6	325.8	316.2	318.1	324.8
70°	287.7	281.9	271.5	271.5	276.2
72.5°	250.5	244.8	231.5	232.4	234.3
75°	219.1	209.5	198.1	194.3	199.1
77.5°	184.8	177.2	166.7	163.8	165.7
80°	152.4	146.7	134.3	130.5	133.3
82.5°	121.0	116.2	101.9	99.1	100.0
85°	83.8	82.9	71.4	65.7	67.6
87.5°	44.8	45.7	37.1	33.3	35.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)