

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: P292120

Luminaire Tested: **22GR-LD5-43-F125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292120  
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-4500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3945.0 lumens  
Efficiency: N/A  
Efficacy: 110.2 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

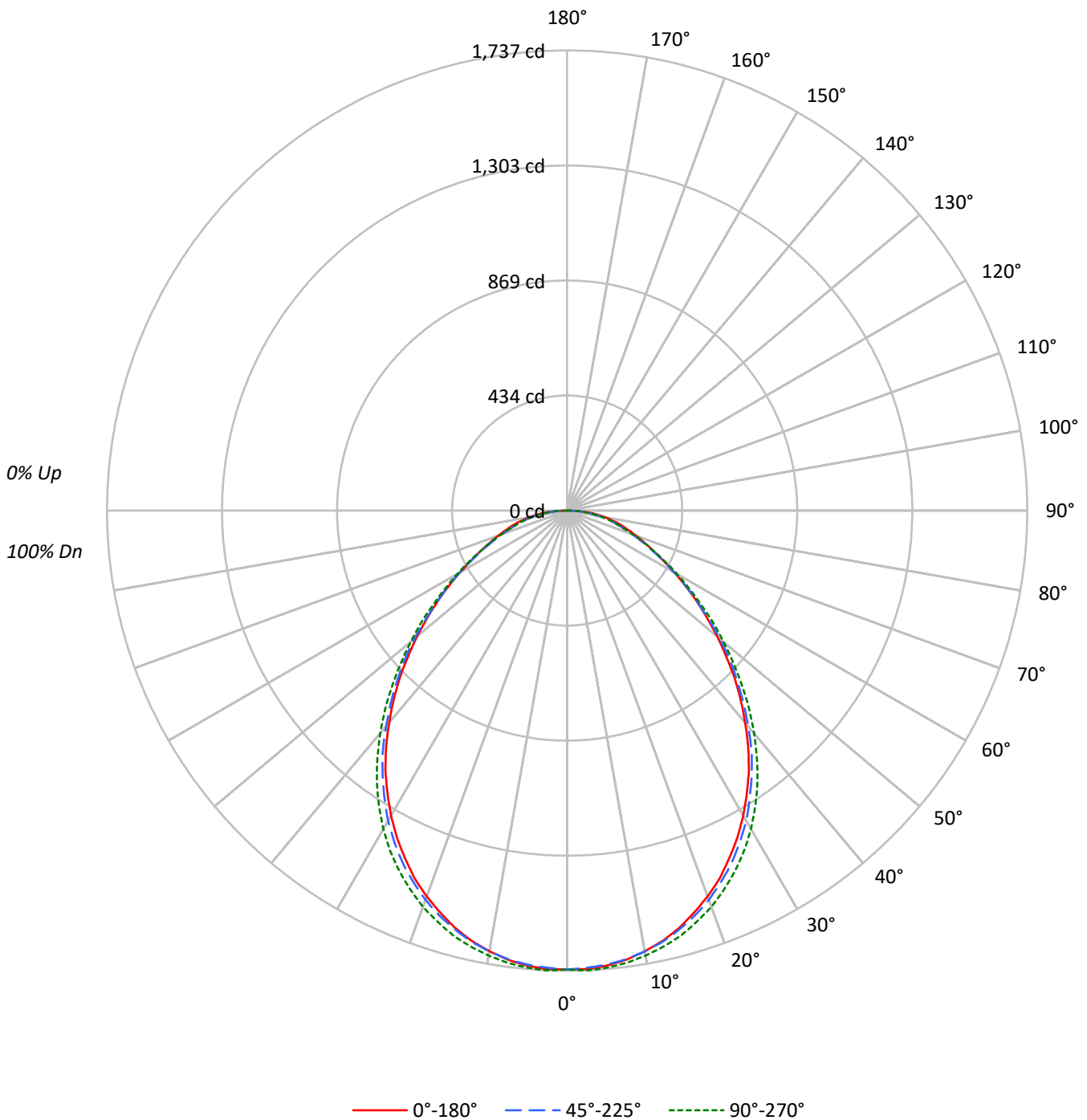
Input Watts (W): 35.805  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4661	4661	4661
5°	4658	4646	4678
10°	4615	4617	4660
15°	4544	4560	4626
20°	4438	4477	4558
25°	4300	4359	4455
30°	4130	4201	4312
35°	3927	3990	4114
40°	3672	3733	3855
45°	3400	3452	3553
50°	3096	3146	3226
55°	2796	2804	2886
60°	2507	2518	2576
65°	2285	2238	2290
70°	2175	2053	2089
75°	2189	1980	1989
80°	2270	2001	1987
85°	2489	2121	2007



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.6	4.1
10°-20°	462.2	11.7
20°-30°	676.5	17.1
30°-40°	760.6	19.3
40°-50°	701.4	17.8
50°-60°	540.6	13.7
60°-70°	356.7	9.0
70°-80°	207.6	5.3
80°-90°	75.6	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°	1302.3	33.0
0°-40°	2062.9	52.3
0°-60°	3305.0	83.8
0°-90°	3945.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3945.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1732	1732	1732	1732	1732	
5°	1724	1721	1720	1728	1732	163
15°	1631	1631	1637	1651	1660	459
25°	1448	1455	1468	1488	1500	666
35°	1196	1201	1215	1239	1252	745
45°	893	894	907	925	934	688
55°	596	595	598	608	615	535
65°	359	357	352	354	360	360
75°	210	201	190	187	191	222
85°	81	80	69	63	65	85
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1731.9	1731.9	1731.9	1731.9	1731.9
2.5°	1731.9	1728.2	1727.3	1733.7	1737.4
5°	1724.5	1720.9	1720.0	1728.2	1731.9
7.5°	1709.9	1707.2	1708.1	1717.2	1721.8
10°	1688.8	1687.9	1689.8	1699.8	1705.3
12.5°	1664.1	1663.2	1666.9	1677.9	1685.2
15°	1631.2	1631.2	1636.7	1651.3	1660.5
17.5°	1591.8	1594.6	1602.8	1617.5	1627.5
20°	1549.7	1552.5	1563.4	1579.9	1591.8
22.5°	1503.0	1506.7	1517.7	1537.8	1547.9
25°	1448.1	1455.4	1468.2	1488.4	1500.3
27.5°	1391.4	1399.6	1411.5	1436.2	1447.2
30°	1329.1	1334.6	1352.0	1374.9	1387.7
32.5°	1263.2	1268.7	1283.3	1310.8	1321.8
35°	1195.5	1201.0	1214.7	1239.4	1252.2
37.5°	1122.2	1126.8	1143.3	1162.5	1176.2
40°	1045.3	1051.8	1062.7	1085.6	1097.5
42.5°	970.3	973.0	984.9	1007.8	1017.0
45°	893.4	894.3	907.1	925.4	933.7
47.5°	813.8	815.6	831.2	842.1	850.4
50°	739.6	740.5	751.5	761.6	770.7
52.5°	665.5	665.5	671.0	681.9	693.8
55°	595.9	595.0	597.7	607.8	615.1
57.5°	530.0	529.1	532.7	539.2	544.6
60°	465.9	464.1	467.8	471.4	478.7
62.5°	409.2	411.0	406.4	411.9	417.4
65°	358.8	357.0	351.5	354.2	359.7
67.5°	315.8	313.1	303.9	305.7	312.1
70°	276.4	270.9	260.9	260.9	265.5
72.5°	240.7	235.2	222.4	223.3	225.2
75°	210.5	201.4	190.4	186.7	191.3
77.5°	177.6	170.3	160.2	157.4	159.3
80°	146.5	141.0	129.1	125.4	128.2
82.5°	116.3	111.7	97.9	95.2	96.1
85°	80.6	79.6	68.7	63.2	65.0
87.5°	43.0	43.9	35.7	32.0	33.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)