

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: P292028

Luminaire Tested: **22GR-LD5-20-F125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292028  
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-LD5-20-F125-UNV-L93050-W2A1-U-3500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1767.0 lumens  
Efficiency: N/A  
Efficacy: 112.4 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

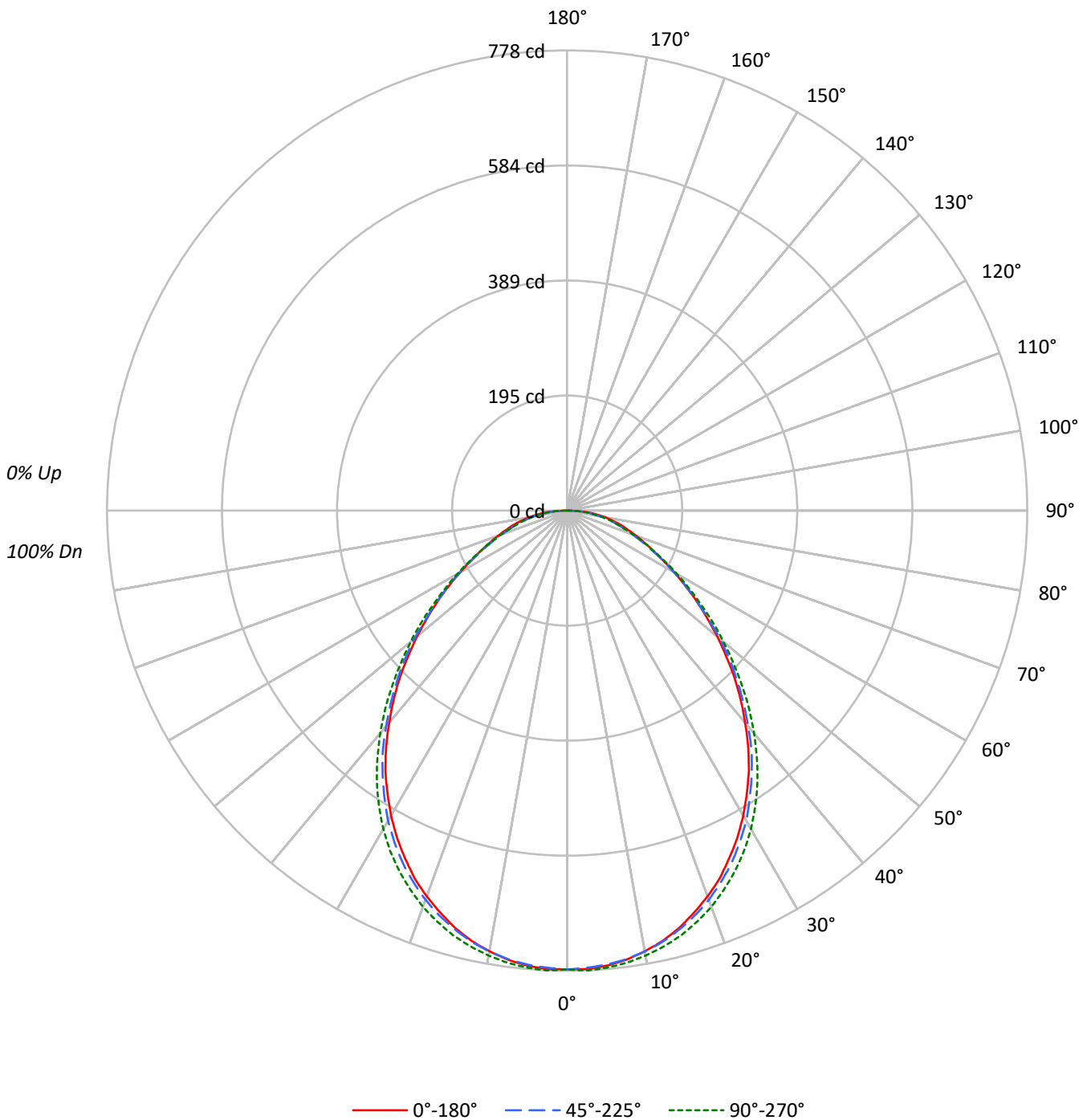
Input Watts (W): 15.717  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2087	2087	2087
5°	2086	2081	2095
10°	2067	2068	2087
15°	2035	2042	2072
20°	1988	2005	2042
25°	1926	1953	1995
30°	1850	1882	1931
35°	1759	1787	1843
40°	1645	1672	1727
45°	1523	1546	1592
50°	1387	1409	1445
55°	1252	1256	1293
60°	1123	1128	1154
65°	1023	1002	1026
70°	974	920	935
75°	980	887	891
80°	1017	896	890
85°	1115	951	898



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.3	4.1
10°-20°	207.0	11.7
20°-30°	303.0	17.1
30°-40°	340.7	19.3
40°-50°	314.2	17.8
50°-60°	242.2	13.7
60°-70°	159.8	9.0
70°-80°	93.0	5.3
80°-90°	33.9	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°	583.3	33.0
0°-40°	924.0	52.3
0°-60°	1480.3	83.8
0°-90°	1767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1767.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	776	776	776	776	776	
5°	772	771	770	774	776	73
15°	731	731	733	740	744	206
25°	649	652	658	667	672	298
35°	536	538	544	555	561	334
45°	400	401	406	414	418	308
55°	267	266	268	272	276	239
65°	161	160	157	159	161	161
75°	94	90	85	84	86	99
85°	36	36	31	28	29	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	775.7	775.7	775.7	775.7	775.7
2.5°	775.7	774.1	773.7	776.5	778.2
5°	772.4	770.8	770.4	774.1	775.7
7.5°	765.9	764.7	765.1	769.2	771.2
10°	756.5	756.0	756.9	761.4	763.8
12.5°	745.4	745.0	746.6	751.5	754.8
15°	730.6	730.6	733.1	739.6	743.7
17.5°	713.0	714.2	717.9	724.5	729.0
20°	694.1	695.4	700.3	707.7	713.0
22.5°	673.2	674.9	679.8	688.8	693.3
25°	648.6	651.9	657.6	666.7	672.0
27.5°	623.2	626.9	632.2	643.3	648.2
30°	595.3	597.8	605.6	615.8	621.6
32.5°	565.8	568.3	574.8	587.1	592.0
35°	535.5	537.9	544.1	555.1	560.9
37.5°	502.7	504.7	512.1	520.7	526.9
40°	468.2	471.1	476.0	486.3	491.6
42.5°	434.6	435.8	441.2	451.4	455.5
45°	400.2	400.6	406.3	414.5	418.2
47.5°	364.5	365.3	372.3	377.2	380.9
50°	331.3	331.7	336.6	341.1	345.2
52.5°	298.1	298.1	300.5	305.5	310.8
55°	266.9	266.5	267.7	272.2	275.5
57.5°	237.4	237.0	238.6	241.5	244.0
60°	208.7	207.9	209.5	211.2	214.4
62.5°	183.3	184.1	182.0	184.5	187.0
65°	160.7	159.9	157.4	158.7	161.1
67.5°	141.5	140.2	136.1	136.9	139.8
70°	123.8	121.4	116.9	116.9	118.9
72.5°	107.8	105.4	99.6	100.0	100.9
75°	94.3	90.2	85.3	83.6	85.7
77.5°	79.5	76.3	71.8	70.5	71.3
80°	65.6	63.1	57.8	56.2	57.4
82.5°	52.1	50.0	43.9	42.6	43.1
85°	36.1	35.7	30.8	28.3	29.1
87.5°	19.3	19.7	16.0	14.4	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)