

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: P291930

Luminaire Tested: **22GR-LD5-20-F125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P291930  
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-L83050-W2A1-U-3500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2079.0 lumens  
Efficiency: N/A  
Efficacy: 134.7 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

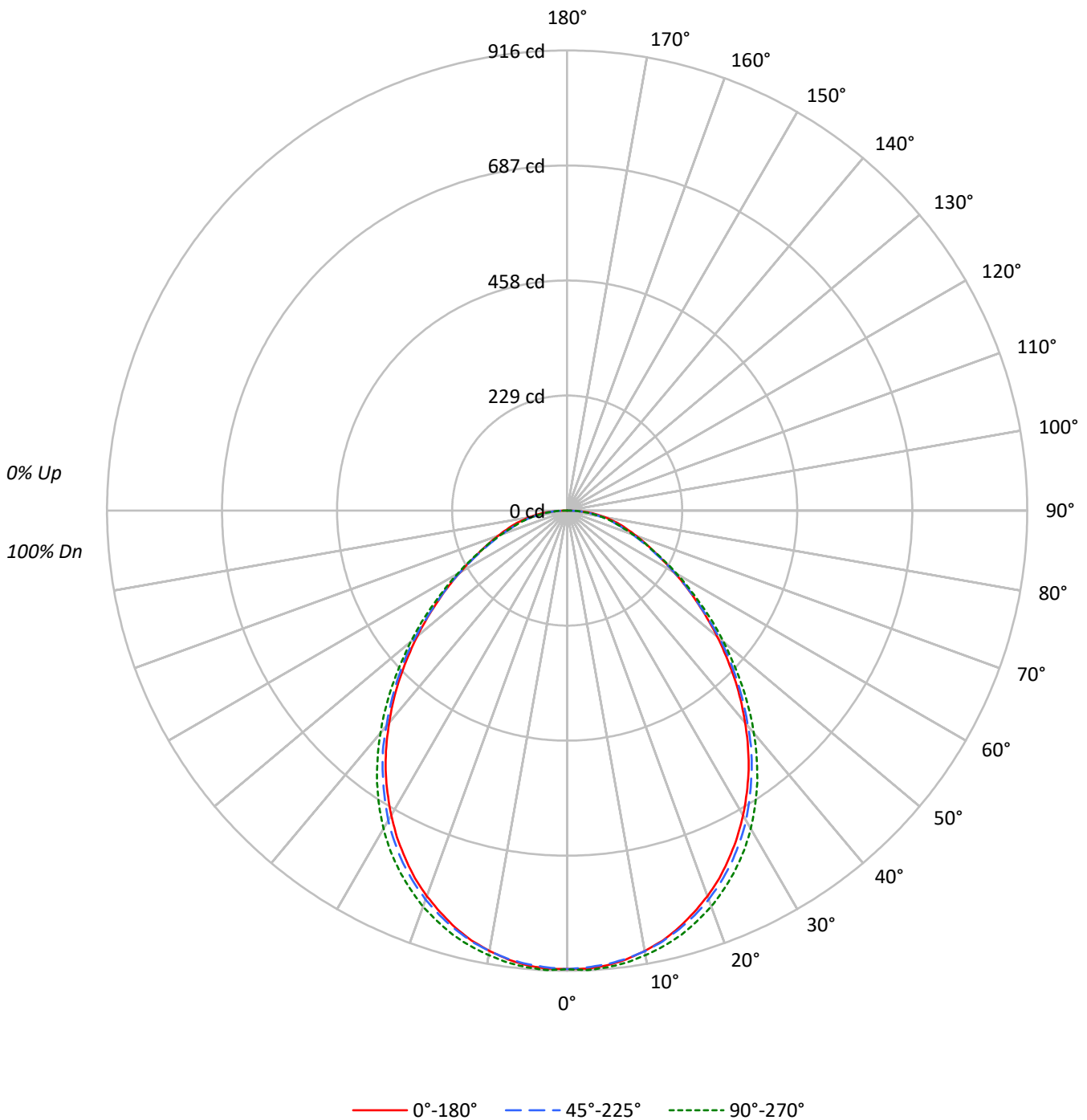
Input Watts (W): 15.438  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2456	2456	2456
5°	2455	2448	2465
10°	2432	2433	2456
15°	2395	2403	2438
20°	2339	2359	2402
25°	2266	2298	2347
30°	2176	2214	2272
35°	2070	2103	2168
40°	1935	1968	2032
45°	1792	1819	1872
50°	1632	1658	1701
55°	1473	1478	1521
60°	1321	1327	1358
65°	1204	1179	1207
70°	1146	1082	1101
75°	1154	1043	1048
80°	1196	1054	1046
85°	1312	1118	1056



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.2	4.1
10°-20°	243.6	11.7
20°-30°	356.5	17.1
30°-40°	400.8	19.3
40°-50°	369.7	17.8
50°-60°	284.9	13.7
60°-70°	188.0	9.0
70°-80°	109.4	5.3
80°-90°	39.9	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°	686.3	33.0
0°-40°	1087.2	52.3
0°-60°	1741.7	83.8
0°-90°	2079.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2079.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	913	913	913	913	913	
5°	909	907	906	911	913	86
15°	860	860	862	870	875	242
25°	763	767	774	784	791	351
35°	630	633	640	653	660	393
45°	471	471	478	488	492	363
55°	314	314	315	320	324	282
65°	189	188	185	187	190	190
75°	111	106	100	98	101	117
85°	42	42	36	33	34	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	912.7	912.7	912.7	912.7	912.7
2.5°	912.7	910.8	910.3	913.7	915.6
5°	908.8	906.9	906.4	910.8	912.7
7.5°	901.1	899.7	900.1	905.0	907.4
10°	890.0	889.5	890.5	895.8	898.7
12.5°	877.0	876.5	878.4	884.2	888.1
15°	859.6	859.6	862.5	870.2	875.1
17.5°	838.9	840.3	844.7	852.4	857.7
20°	816.7	818.1	823.9	832.6	838.9
22.5°	792.1	794.0	799.8	810.4	815.7
25°	763.1	767.0	773.8	784.4	790.6
27.5°	733.2	737.6	743.9	756.9	762.7
30°	700.4	703.3	712.5	724.6	731.3
32.5°	665.7	668.6	676.3	690.8	696.6
35°	630.0	632.9	640.1	653.2	659.9
37.5°	591.4	593.8	602.5	612.6	619.9
40°	550.9	554.3	560.1	572.1	578.4
42.5°	511.3	512.8	519.1	531.1	535.9
45°	470.8	471.3	478.1	487.7	492.0
47.5°	428.8	429.8	438.0	443.8	448.1
50°	389.8	390.3	396.0	401.4	406.2
52.5°	350.7	350.7	353.6	359.4	365.7
55°	314.0	313.6	315.0	320.3	324.2
57.5°	279.3	278.8	280.8	284.1	287.0
60°	245.5	244.6	246.5	248.4	252.3
62.5°	215.6	216.6	214.2	217.1	220.0
65°	189.1	188.1	185.2	186.7	189.6
67.5°	166.4	165.0	160.2	161.1	164.5
70°	145.7	142.8	137.5	137.5	139.9
72.5°	126.9	124.0	117.2	117.7	118.7
75°	111.0	106.1	100.3	98.4	100.8
77.5°	93.6	89.7	84.4	83.0	83.9
80°	77.2	74.3	68.0	66.1	67.5
82.5°	61.3	58.9	51.6	50.2	50.7
85°	42.5	42.0	36.2	33.3	34.2
87.5°	22.7	23.2	18.8	16.9	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)