

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: P292073

Luminaire Tested: **22GR-LD5-24-F125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292073  
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-LD5-24-F125-UNV-L92765-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: 2088.0 lumens  
Efficiency: N/A  
Efficacy: 115.1 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

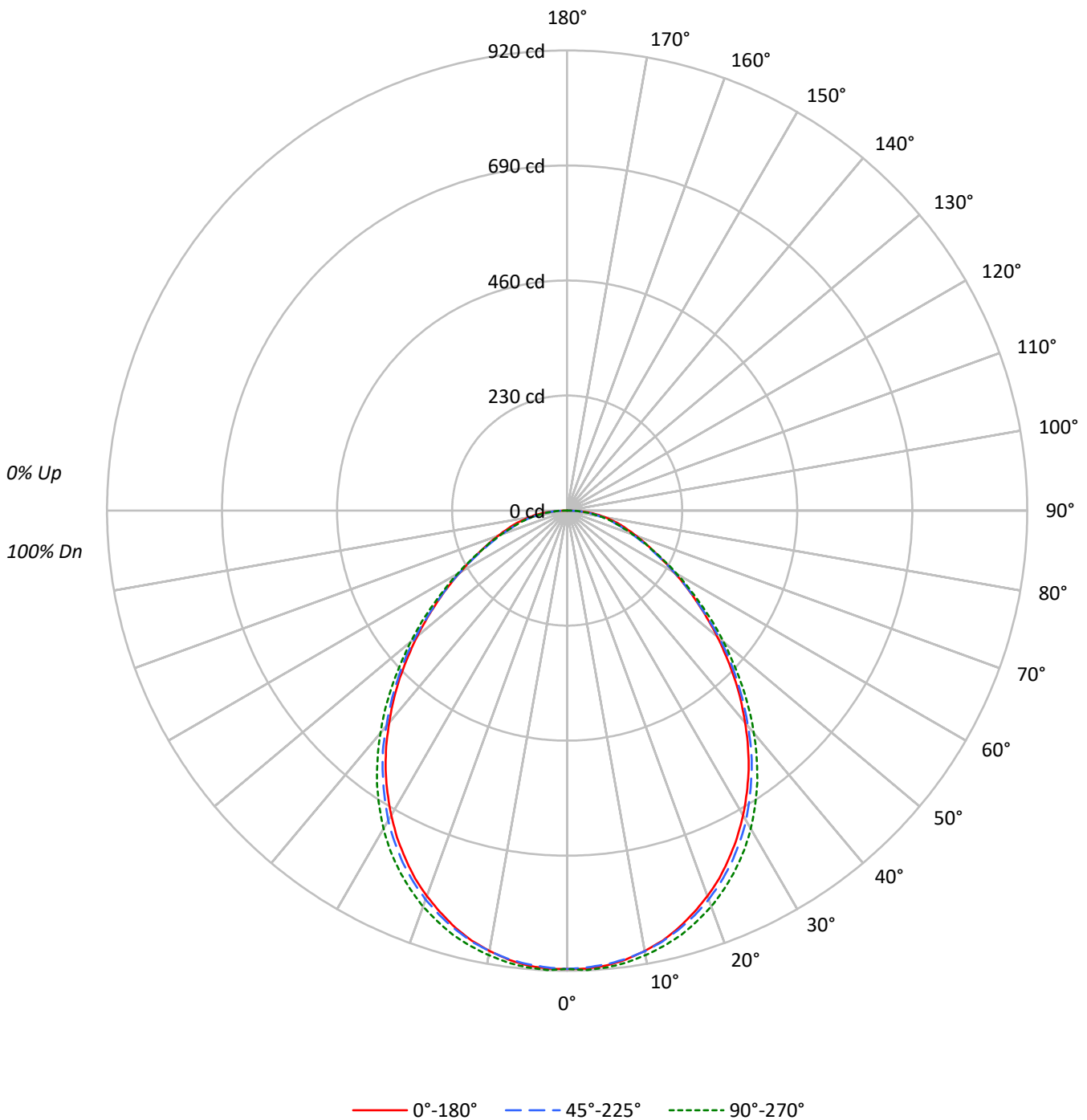
Input Watts (W): 18.135  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2467	2467	2467
5°	2466	2459	2476
10°	2443	2444	2466
15°	2405	2413	2449
20°	2349	2370	2413
25°	2276	2307	2358
30°	2186	2224	2282
35°	2078	2112	2177
40°	1944	1976	2041
45°	1800	1827	1881
50°	1639	1665	1708
55°	1480	1484	1528
60°	1327	1333	1364
65°	1209	1184	1212
70°	1151	1087	1105
75°	1158	1048	1053
80°	1201	1058	1051
85°	1315	1121	1062



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.6	4.1
10°-20°	244.6	11.7
20°-30°	358.1	17.1
30°-40°	402.6	19.3
40°-50°	371.3	17.8
50°-60°	286.1	13.7
60°-70°	188.8	9.0
70°-80°	109.9	5.3
80°-90°	40.0	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°	689.3	33.0
0°-40°	1091.9	52.3
0°-60°	1749.3	83.8
0°-90°	2088.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2088.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	917	917	917	917	917	
5°	913	911	910	915	917	87
15°	863	863	866	874	879	243
25°	766	770	777	788	794	353
35°	633	636	643	656	663	395
45°	473	473	480	490	494	364
55°	315	315	316	322	326	283
65°	190	189	186	188	190	190
75°	111	107	101	99	101	117
85°	43	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°	916.6	916.6	916.6	916.6	916.6
2.5°	916.6	914.7	914.2	917.6	919.5
5°	912.8	910.8	910.3	914.7	916.6
7.5°	905.0	903.6	904.0	908.9	911.3
10°	893.9	893.4	894.4	899.7	902.6
12.5°	880.8	880.3	882.2	888.1	891.9
15°	863.3	863.3	866.3	874.0	878.9
17.5°	842.5	844.0	848.3	856.1	861.4
20°	820.2	821.7	827.5	836.2	842.5
22.5°	795.5	797.5	803.3	813.9	819.3
25°	766.5	770.3	777.1	787.8	794.1
27.5°	736.4	740.8	747.1	760.2	766.0
30°	703.5	706.4	715.6	727.7	734.5
32.5°	668.6	671.5	679.2	693.8	699.6
35°	632.7	635.6	642.9	656.0	662.8
37.5°	594.0	596.4	605.1	615.3	622.6
40°	553.3	556.7	562.5	574.6	580.9
42.5°	513.6	515.0	521.3	533.4	538.3
45°	472.9	473.3	480.1	489.8	494.2
47.5°	430.7	431.7	439.9	445.7	450.1
50°	391.5	391.9	397.8	403.1	407.9
52.5°	352.2	352.2	355.1	360.9	367.2
55°	315.4	314.9	316.4	321.7	325.6
57.5°	280.5	280.0	282.0	285.4	288.3
60°	246.6	245.6	247.6	249.5	253.4
62.5°	216.6	217.5	215.1	218.0	220.9
65°	189.9	188.9	186.0	187.5	190.4
67.5°	167.1	165.7	160.8	161.8	165.2
70°	146.3	143.4	138.1	138.1	140.5
72.5°	127.4	124.5	117.7	118.2	119.2
75°	111.4	106.6	100.8	98.8	101.3
77.5°	94.0	90.1	84.8	83.3	84.3
80°	77.5	74.6	68.3	66.4	67.8
82.5°	61.5	59.1	51.8	50.4	50.9
85°	42.6	42.1	36.3	33.4	34.4
87.5°	22.8	23.3	18.9	17.0	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)