

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: P292079

Luminaire Tested: **22GR-LD5-24-F125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292079  
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-6500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2316.0 lumens  
Efficiency: N/A  
Efficacy: 122.1 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

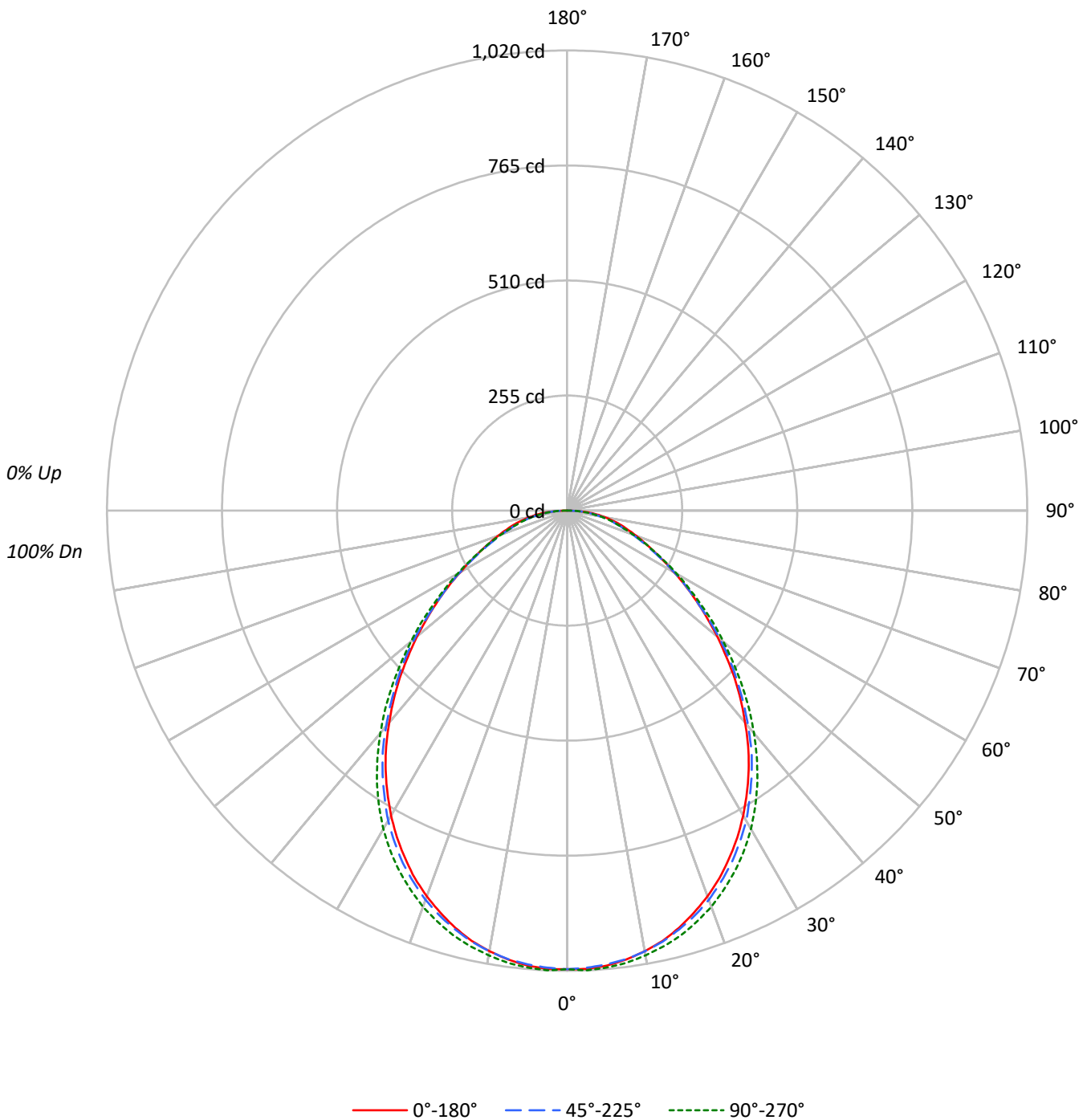
Input Watts (W): 18.972  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2736	2736	2736
5°	2735	2727	2746
10°	2709	2711	2735
15°	2668	2677	2716
20°	2605	2629	2676
25°	2524	2559	2615
30°	2425	2466	2531
35°	2305	2343	2415
40°	2156	2192	2263
45°	1996	2026	2086
50°	1818	1847	1894
55°	1641	1646	1694
60°	1472	1478	1513
65°	1342	1314	1345
70°	1277	1205	1226
75°	1285	1162	1168
80°	1333	1175	1165
85°	1460	1244	1179



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.1	4.1
10°-20°	271.3	11.7
20°-30°	397.2	17.1
30°-40°	446.5	19.3
40°-50°	411.8	17.8
50°-60°	317.4	13.7
60°-70°	209.4	9.0
70°-80°	121.9	5.3
80°-90°	44.4	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°	764.6	33.0
0°-40°	1211.1	52.3
0°-60°	1940.2	83.8
0°-90°	2316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2316.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1017	1017	1017	1017	1017	
5°	1012	1010	1010	1015	1017	96
15°	958	958	961	969	975	269
25°	850	854	862	874	881	391
35°	702	705	713	728	735	438
45°	524	525	532	543	548	404
55°	350	349	351	357	361	314
65°	211	210	206	208	211	211
75°	124	118	112	110	112	130
85°	47	47	40	37	38	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1016.7	1016.7	1016.7	1016.7	1016.7
2.5°	1016.7	1014.6	1014.0	1017.8	1020.0
5°	1012.4	1010.3	1009.7	1014.6	1016.7
7.5°	1003.8	1002.2	1002.8	1008.1	1010.8
10°	991.5	990.9	992.0	997.9	1001.1
12.5°	977.0	976.4	978.6	985.0	989.3
15°	957.6	957.6	960.8	969.4	974.8
17.5°	934.5	936.1	941.0	949.6	955.5
20°	909.8	911.4	917.9	927.5	934.5
22.5°	882.4	884.5	891.0	902.8	908.7
25°	850.1	854.4	862.0	873.8	880.8
27.5°	816.8	821.7	828.6	843.2	849.6
30°	780.3	783.5	793.7	807.2	814.7
32.5°	741.6	744.8	753.4	769.5	776.0
35°	701.8	705.0	713.1	727.6	735.1
37.5°	658.8	661.5	671.2	682.5	690.5
40°	613.7	617.5	623.9	637.3	644.3
42.5°	569.6	571.2	578.2	591.7	597.0
45°	524.5	525.0	532.5	543.3	548.1
47.5°	477.7	478.8	487.9	494.4	499.2
50°	434.2	434.7	441.2	447.1	452.5
52.5°	390.7	390.7	393.9	400.4	407.3
55°	349.8	349.3	350.9	356.8	361.1
57.5°	311.1	310.6	312.8	316.5	319.7
60°	273.5	272.5	274.6	276.8	281.1
62.5°	240.2	241.3	238.6	241.8	245.0
65°	210.7	209.6	206.4	208.0	211.2
67.5°	185.4	183.8	178.4	179.5	183.2
70°	162.3	159.1	153.2	153.2	155.8
72.5°	141.3	138.1	130.6	131.1	132.2
75°	123.6	118.2	111.8	109.6	112.3
77.5°	104.3	100.0	94.0	92.4	93.5
80°	86.0	82.8	75.8	73.6	75.2
82.5°	68.2	65.6	57.5	55.9	56.4
85°	47.3	46.8	40.3	37.1	38.2
87.5°	25.3	25.8	21.0	18.8	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)