

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: P292365

Luminaire Tested: **22GR-LD5-24-A125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292365  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-24-A125-UNV-L82765-W2A1-U-2700K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2228.0 lumens  
Efficiency: N/A  
Efficacy: 122.9 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

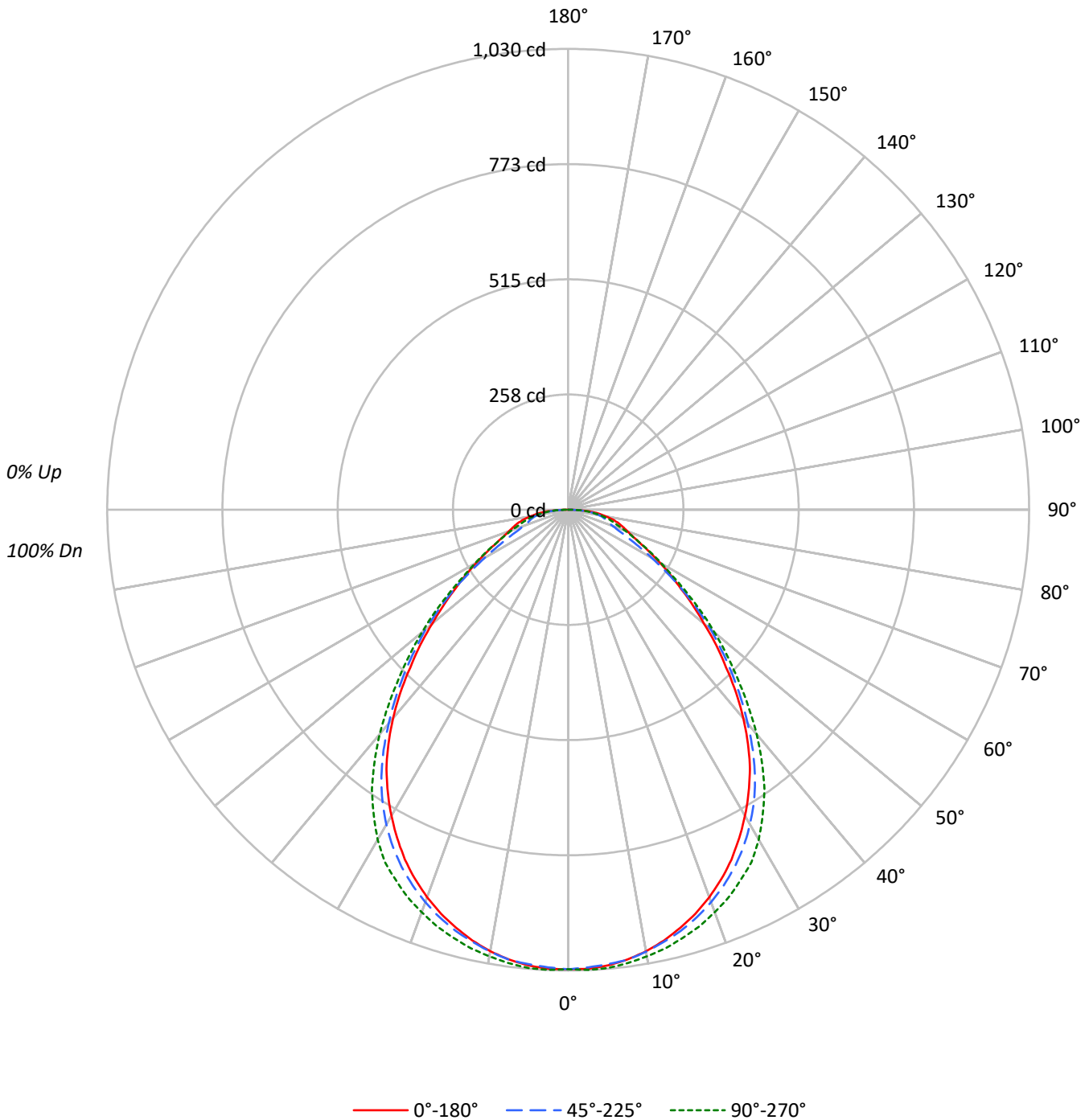
Input Watts (W): 18.135  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86					86			
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74					74			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49					49			
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29					29			

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

	0°	45°	90°
0°	2764	2764	2764
5°	2761	2754	2777
10°	2738	2741	2769
15°	2695	2713	2760
20°	2639	2673	2742
25°	2562	2614	2710
30°	2455	2525	2646
35°	2326	2391	2512
40°	2139	2192	2301
45°	1900	1969	2040
50°	1659	1735	1788
55°	1443	1462	1516
60°	1269	1163	1294
65°	1128	930	1135
70°	1108	825	1046
75°	1210	908	1070
80°	1328	1079	1144
85°	1587	1250	1284



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.1	4.4
10°-20°	275.3	12.4
20°-30°	406.3	18.2
30°-40°	454.7	20.4
40°-50°	399.3	17.9
50°-60°	282.5	12.7
60°-70°	164.5	7.4
70°-80°	102.5	4.6
80°-90°	45.9	2.1
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°	778.7	34.9
0°-40°	1233.4	55.4
0°-60°	1915.2	86.0
0°-90°	2228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2228.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1027	1027	1027	1027	1027	
5°	1022	1020	1020	1025	1028	97
15°	967	969	974	984	991	273
25°	863	866	880	901	913	396
35°	708	711	728	750	765	440
45°	499	505	517	530	536	386
55°	308	314	312	317	323	278
65°	177	163	146	159	178	180
75°	116	100	87	89	103	122
85°	51	54	40	40	42	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1027.0	1027.0	1027.0	1027.0	1027.0
2.5°	1027.0	1024.9	1023.9	1027.5	1029.6
5°	1022.3	1019.7	1019.7	1024.9	1028.0
7.5°	1014.0	1011.4	1014.5	1019.2	1022.3
10°	1002.1	1001.0	1003.1	1009.3	1013.5
12.5°	986.5	987.0	989.1	998.9	1004.1
15°	967.3	969.3	974.0	984.4	990.6
17.5°	946.5	948.0	955.3	967.3	976.1
20°	921.5	924.7	933.5	948.6	957.4
22.5°	894.0	897.6	908.6	926.7	937.6
25°	862.8	866.5	880.5	901.3	912.7
27.5°	827.5	833.2	848.8	871.7	887.3
30°	790.1	794.8	812.5	838.4	851.4
32.5°	750.1	755.8	772.5	797.4	808.8
35°	708.0	711.2	727.8	749.6	764.7
37.5°	660.2	661.8	677.4	697.7	711.2
40°	608.8	609.9	623.9	643.1	655.1
42.5°	555.3	555.8	570.9	585.4	595.8
45°	499.2	504.9	517.4	529.9	536.1
47.5°	448.8	453.0	464.4	475.3	481.0
50°	396.4	406.7	414.5	420.3	427.0
52.5°	351.2	360.0	362.1	368.8	374.5
55°	307.5	313.8	311.7	317.4	323.1
57.5°	270.6	267.5	260.8	270.6	277.9
60°	235.8	227.5	216.1	229.6	240.5
62.5°	204.7	191.2	177.1	190.6	208.8
65°	177.1	163.1	146.0	159.0	178.2
67.5°	156.4	141.8	121.6	134.5	153.8
70°	140.8	125.7	104.9	115.8	133.0
72.5°	128.3	112.2	94.0	101.3	115.8
75°	116.4	100.3	87.3	89.3	102.9
77.5°	102.3	90.4	80.0	79.0	89.3
80°	85.7	82.1	69.6	68.1	73.8
82.5°	70.6	69.1	57.1	55.6	57.7
85°	51.4	53.5	40.5	39.5	41.6
87.5°	27.0	29.6	21.3	22.3	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)