

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: P291976

Luminaire Tested: **22GR-LD5-24-F125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291976
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-L82765-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2436.0 lumens
Efficiency: N/A
Efficacy: 133.0 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

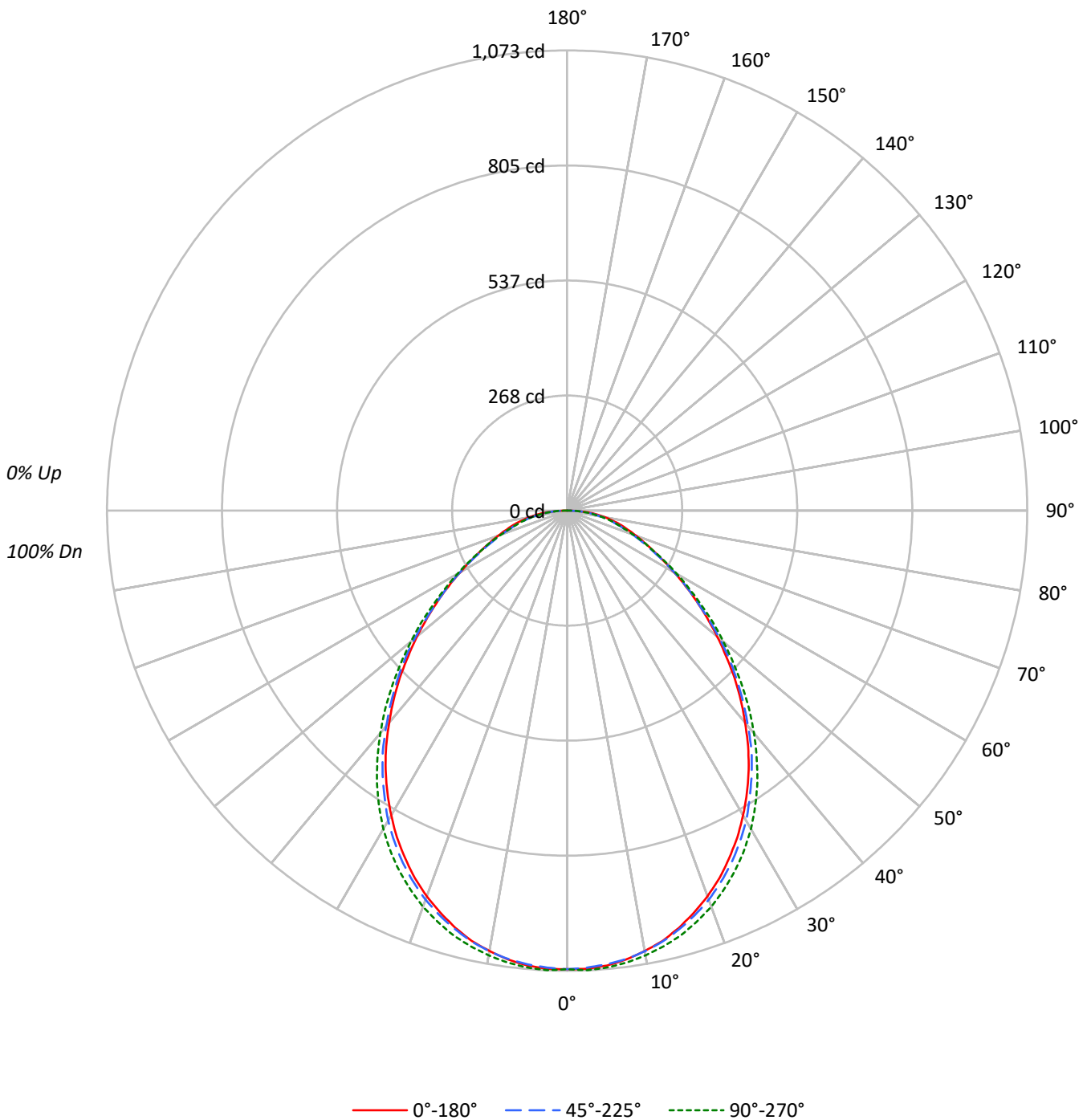
Input Watts (W): 18.321
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2878	2878	2878
5°	2877	2869	2889
10°	2849	2851	2877
15°	2806	2815	2856
20°	2740	2765	2815
25°	2655	2692	2751
30°	2550	2594	2663
35°	2425	2464	2540
40°	2268	2305	2381
45°	2100	2132	2194
50°	1912	1943	1992
55°	1727	1732	1782
60°	1548	1554	1591
65°	1411	1382	1414
70°	1343	1268	1290
75°	1352	1223	1228
80°	1401	1235	1226
85°	1535	1309	1238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	4.1
10°-20°	285.4	11.7
20°-30°	417.7	17.1
30°-40°	469.7	19.3
40°-50°	433.1	17.8
50°-60°	333.8	13.7
60°-70°	220.3	9.0
70°-80°	128.2	5.3
80°-90°	46.7	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°	804.2	33.0
0°-40°	1273.8	52.3
0°-60°	2040.8	83.8
0°-90°	2436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2436.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1069	1069	1069	1069	1069	
5°	1065	1063	1062	1067	1069	101
15°	1007	1007	1011	1020	1025	283
25°	894	899	907	919	926	411
35°	738	742	750	765	773	460
45°	552	552	560	571	576	425
55°	368	367	369	375	380	330
65°	222	220	217	219	222	222
75°	130	124	118	115	118	137
85°	50	49	42	39	40	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1069.4	1069.4	1069.4	1069.4	1069.4
2.5°	1069.4	1067.2	1066.6	1070.5	1072.8
5°	1064.9	1062.6	1062.1	1067.2	1069.4
7.5°	1055.8	1054.2	1054.7	1060.4	1063.2
10°	1042.8	1042.3	1043.4	1049.6	1053.0
12.5°	1027.6	1027.0	1029.3	1036.1	1040.6
15°	1007.2	1007.2	1010.6	1019.7	1025.3
17.5°	982.9	984.6	989.7	998.8	1005.0
20°	956.9	958.6	965.4	975.6	982.9
22.5°	928.1	930.4	937.2	949.6	955.8
25°	894.2	898.7	906.6	919.1	926.4
27.5°	859.1	864.2	871.6	886.8	893.6
30°	820.7	824.1	834.8	849.0	856.9
32.5°	780.0	783.4	792.5	809.4	816.2
35°	738.2	741.6	750.1	765.3	773.2
37.5°	693.0	695.8	706.0	717.8	726.3
40°	645.5	649.4	656.2	670.4	677.7
42.5°	599.1	600.8	608.2	622.3	628.0
45°	551.7	552.2	560.1	571.4	576.5
47.5°	502.5	503.6	513.2	520.0	525.1
50°	456.7	457.3	464.1	470.3	475.9
52.5°	410.9	410.9	414.3	421.1	428.4
55°	368.0	367.4	369.1	375.3	379.8
57.5°	327.3	326.7	329.0	332.9	336.3
60°	287.7	286.6	288.8	291.1	295.6
62.5°	252.7	253.8	251.0	254.4	257.7
65°	221.6	220.4	217.0	218.7	222.1
67.5°	195.0	193.3	187.7	188.8	192.7
70°	170.7	167.3	161.1	161.1	163.9
72.5°	148.7	145.3	137.4	137.9	139.0
75°	130.0	124.4	117.6	115.3	118.1
77.5°	109.7	105.1	98.9	97.2	98.3
80°	90.4	87.0	79.7	77.4	79.1
82.5°	71.8	69.0	60.5	58.8	59.3
85°	49.7	49.2	42.4	39.0	40.1
87.5°	26.6	27.1	22.0	19.8	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)