

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: P291973

Luminaire Tested: **22GR-LD5-24-F125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291973
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-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2239.0 lumens
Efficiency: N/A
Efficacy: 123.5 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

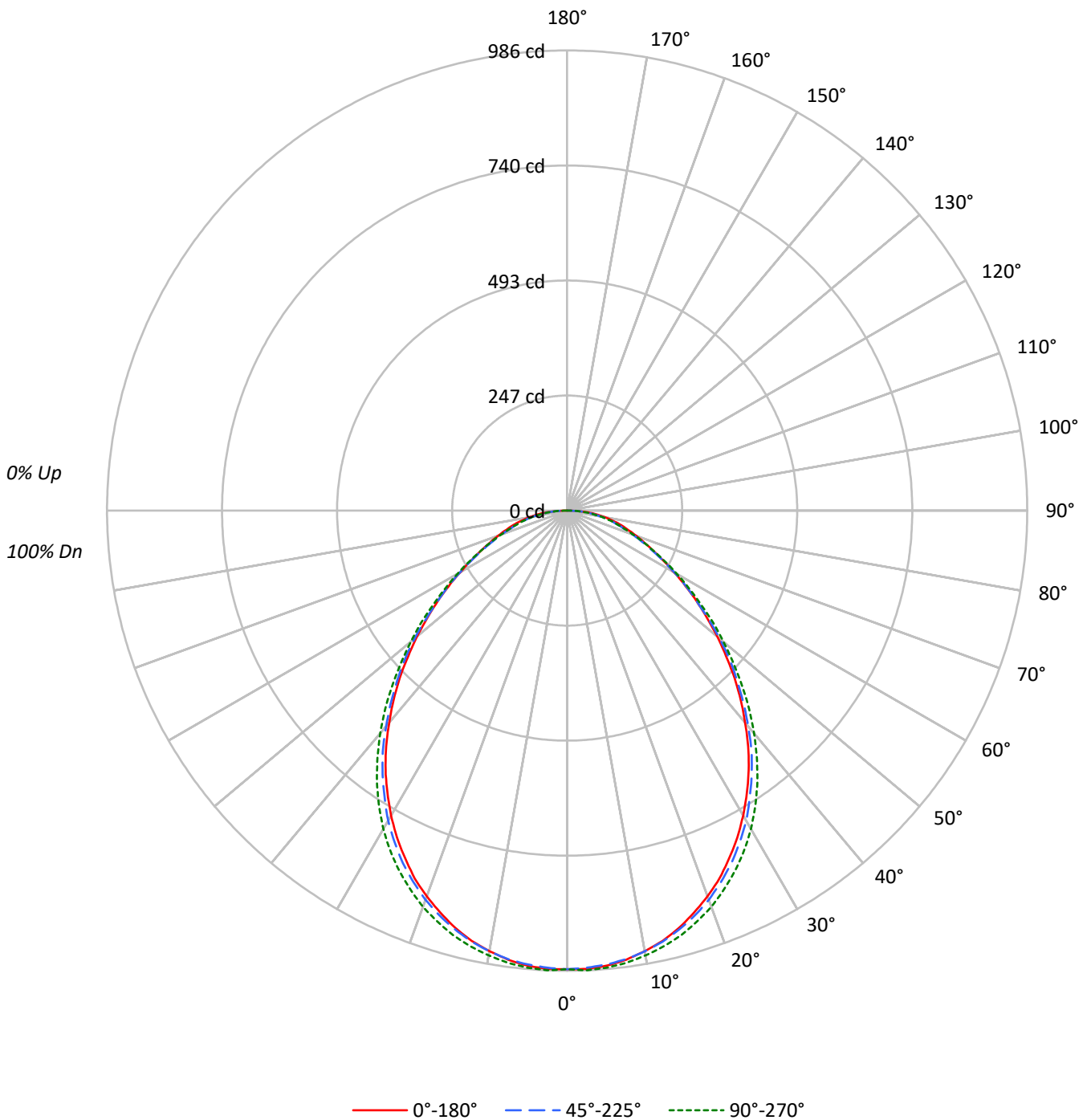
Input Watts (W): 18.135
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2645	2645	2645
5°	2644	2637	2655
10°	2619	2620	2645
15°	2579	2588	2625
20°	2519	2541	2587
25°	2440	2474	2528
30°	2344	2384	2447
35°	2229	2265	2335
40°	2084	2119	2188
45°	1930	1959	2017
50°	1757	1786	1831
55°	1587	1591	1638
60°	1423	1429	1462
65°	1297	1270	1300
70°	1234	1165	1186
75°	1242	1124	1129
80°	1288	1136	1127
85°	1411	1204	1139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	4.1
10°-20°	262.3	11.7
20°-30°	383.9	17.1
30°-40°	431.7	19.3
40°-50°	398.1	17.8
50°-60°	306.8	13.7
60°-70°	202.5	9.0
70°-80°	117.9	5.3
80°-90°	42.9	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°	739.1	33.0
0°-40°	1170.8	52.3
0°-60°	1875.8	83.8
0°-90°	2239.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2239.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	983	983	983	983	983	
5°	979	977	976	981	983	93
15°	926	926	929	937	942	261
25°	822	826	833	845	852	378
35°	678	682	689	703	711	423
45°	507	508	515	525	530	390
55°	338	338	339	345	349	303
65°	204	203	200	201	204	204
75°	120	114	108	106	109	126
85°	46	45	39	36	37	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	982.9	982.9	982.9	982.9	982.9
2.5°	982.9	980.9	980.3	984.0	986.0
5°	978.8	976.7	976.2	980.9	982.9
7.5°	970.5	968.9	969.4	974.6	977.2
10°	958.5	958.0	959.0	964.7	967.9
12.5°	944.5	944.0	946.0	952.3	956.4
15°	925.8	925.8	928.9	937.2	942.4
17.5°	903.4	905.0	909.7	918.0	923.7
20°	879.5	881.1	887.3	896.7	903.4
22.5°	853.1	855.1	861.4	872.8	878.5
25°	821.9	826.0	833.3	844.7	851.5
27.5°	789.7	794.3	801.1	815.1	821.4
30°	754.3	757.5	767.3	780.3	787.6
32.5°	716.9	720.1	728.4	744.0	750.2
35°	678.5	681.6	689.4	703.4	710.7
37.5°	636.9	639.5	648.9	659.8	667.6
40°	593.3	596.9	603.2	616.1	622.9
42.5°	550.7	552.2	559.0	572.0	577.2
45°	507.1	507.6	514.8	525.2	529.9
47.5°	461.9	462.9	471.7	478.0	482.6
50°	419.8	420.3	426.5	432.2	437.4
52.5°	377.7	377.7	380.8	387.0	393.8
55°	338.2	337.7	339.2	345.0	349.1
57.5°	300.8	300.3	302.4	306.0	309.1
60°	264.4	263.4	265.5	267.6	271.7
62.5°	232.2	233.3	230.7	233.8	236.9
65°	203.7	202.6	199.5	201.1	204.2
67.5°	179.2	177.7	172.5	173.5	177.2
70°	156.9	153.8	148.1	148.1	150.7
72.5°	136.6	133.5	126.2	126.8	127.8
75°	119.5	114.3	108.1	106.0	108.6
77.5°	100.8	96.6	90.9	89.4	90.4
80°	83.1	80.0	73.3	71.2	72.7
82.5°	66.0	63.4	55.6	54.0	54.5
85°	45.7	45.2	39.0	35.8	36.9
87.5°	24.4	24.9	20.3	18.2	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)