

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: P291934

Luminaire Tested: **22GR-LD5-24-F125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291934
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-L83050-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2306.0 lumens
Efficiency: N/A
Efficacy: 127.2 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

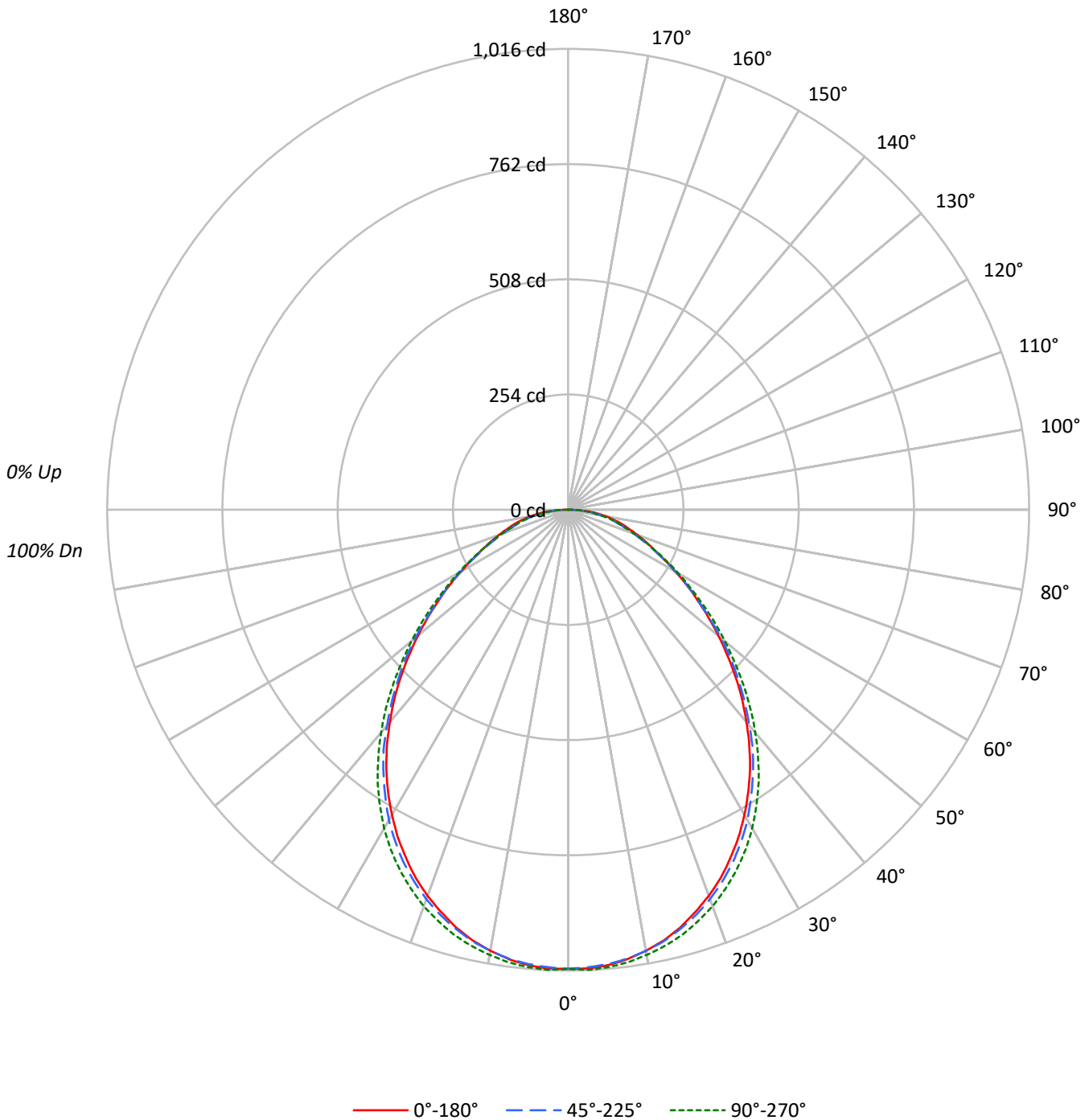
Input Watts (W): 18.135
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2724	2724	2724
5°	2723	2716	2734
10°	2698	2699	2724
15°	2656	2665	2704
20°	2594	2617	2665
25°	2513	2548	2604
30°	2414	2456	2521
35°	2296	2332	2405
40°	2146	2182	2253
45°	1987	2018	2077
50°	1810	1839	1886
55°	1634	1639	1687
60°	1466	1471	1506
65°	1335	1309	1339
70°	1271	1200	1221
75°	1280	1157	1162
80°	1327	1168	1161
85°	1454	1238	1173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	4.1
10°-20°	270.2	11.7
20°-30°	395.4	17.1
30°-40°	444.6	19.3
40°-50°	410.0	17.8
50°-60°	316.0	13.7
60°-70°	208.5	9.0
70°-80°	121.4	5.3
80°-90°	44.2	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°	761.3	33.0
0°-40°	1205.9	52.3
0°-60°	1931.9	83.8
0°-90°	2306.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2306.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1012	1012	1012	1012	1012	
5°	1008	1006	1005	1010	1012	96
15°	954	954	957	965	971	268
25°	846	851	858	870	877	389
35°	699	702	710	724	732	436
45°	522	523	530	541	546	402
55°	348	348	349	355	360	313
65°	210	209	206	207	210	210
75°	123	118	111	109	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°	1012.3	1012.3	1012.3	1012.3	1012.3
2.5°	1012.3	1010.2	1009.7	1013.4	1015.6
5°	1008.1	1005.9	1005.4	1010.2	1012.3
7.5°	999.5	997.9	998.4	1003.8	1006.5
10°	987.2	986.7	987.7	993.6	996.8
12.5°	972.7	972.2	974.4	980.8	985.1
15°	953.5	953.5	956.7	965.3	970.6
17.5°	930.5	932.1	936.9	945.5	951.3
20°	905.9	907.5	913.9	923.5	930.5
22.5°	878.6	880.7	887.1	898.9	904.8
25°	846.5	850.8	858.2	870.0	877.0
27.5°	813.3	818.1	825.1	839.5	845.9
30°	776.9	780.1	790.3	803.7	811.2
32.5°	738.4	741.6	750.2	766.2	772.6
35°	698.8	702.0	710.0	724.5	732.0
37.5°	656.0	658.7	668.3	679.5	687.6
40°	611.0	614.8	621.2	634.6	641.5
42.5°	567.2	568.8	575.7	589.1	594.5
45°	522.2	522.8	530.2	541.0	545.8
47.5°	475.7	476.7	485.8	492.3	497.1
50°	432.3	432.9	439.3	445.2	450.5
52.5°	389.0	389.0	392.2	398.6	405.6
55°	348.3	347.8	349.4	355.3	359.6
57.5°	309.8	309.3	311.4	315.2	318.4
60°	272.3	271.3	273.4	275.6	279.8
62.5°	239.2	240.2	237.6	240.8	244.0
65°	209.7	208.7	205.5	207.1	210.3
67.5°	184.6	183.0	177.6	178.7	182.5
70°	161.6	158.4	152.5	152.5	155.2
72.5°	140.7	137.5	130.0	130.6	131.6
75°	123.1	117.7	111.3	109.2	111.8
77.5°	103.8	99.5	93.6	92.0	93.1
80°	85.6	82.4	75.4	73.3	74.9
82.5°	68.0	65.3	57.3	55.6	56.2
85°	47.1	46.6	40.1	36.9	38.0
87.5°	25.1	25.7	20.9	18.7	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)