

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: P291936

Luminaire Tested: **22GR-LD5-24-F125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291936
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-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: 2562.0 lumens
Efficiency: N/A
Efficacy: 138.4 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

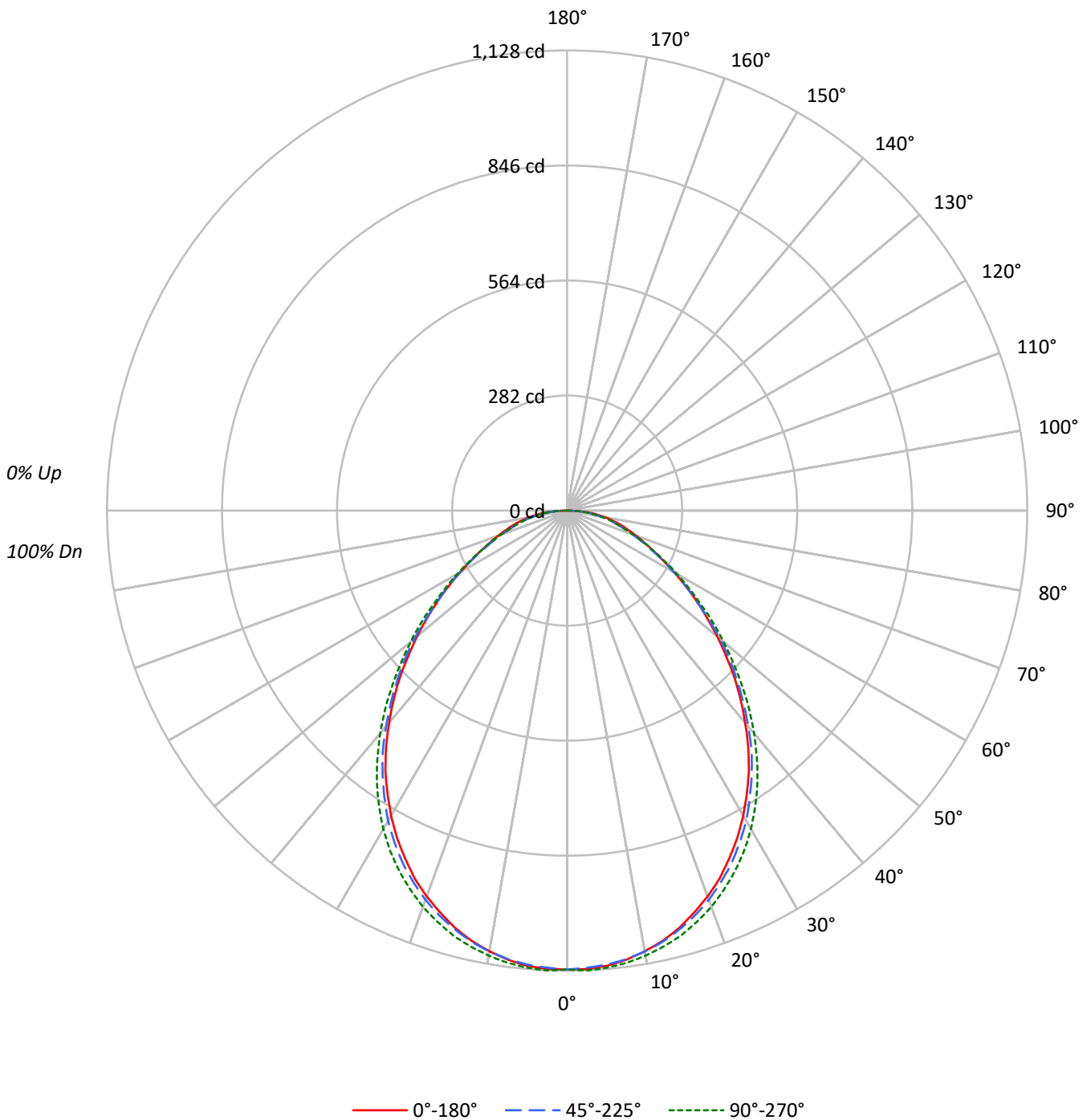
Input Watts (W): 18.507
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3027	3027	3027
5°	3025	3017	3038
10°	2997	2999	3026
15°	2951	2961	3004
20°	2882	2907	2960
25°	2792	2831	2893
30°	2682	2728	2800
35°	2551	2592	2671
40°	2385	2425	2504
45°	2208	2242	2308
50°	2011	2043	2095
55°	1816	1821	1874
60°	1629	1635	1673
65°	1484	1454	1487
70°	1412	1333	1356
75°	1421	1285	1291
80°	1474	1299	1289
85°	1615	1377	1303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	4.1
10°-20°	300.2	11.7
20°-30°	439.3	17.1
30°-40°	494.0	19.3
40°-50°	455.5	17.8
50°-60°	351.1	13.7
60°-70°	231.7	9.0
70°-80°	134.8	5.3
80°-90°	49.1	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°	845.8	33.0
0°-40°	1339.7	52.3
0°-60°	2146.4	83.8
0°-90°	2562.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2562.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1125	1125	1125	1125	1125	
5°	1120	1118	1117	1122	1125	106
15°	1059	1059	1063	1072	1078	298
25°	940	945	954	967	974	433
35°	776	780	789	805	813	484
45°	580	581	589	601	606	447
55°	387	386	388	395	400	347
65°	233	232	228	230	234	234
75°	137	131	124	121	124	144
85°	52	52	45	41	42	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1124.7	1124.7	1124.7	1124.7	1124.7
2.5°	1124.7	1122.4	1121.8	1125.9	1128.3
5°	1120.0	1117.6	1117.0	1122.4	1124.7
7.5°	1110.5	1108.7	1109.3	1115.2	1118.2
10°	1096.8	1096.2	1097.4	1103.9	1107.5
12.5°	1080.7	1080.1	1082.5	1089.7	1094.4
15°	1059.3	1059.3	1062.9	1072.4	1078.4
17.5°	1033.8	1035.6	1040.9	1050.4	1057.0
20°	1006.4	1008.2	1015.3	1026.0	1033.8
22.5°	976.1	978.5	985.6	998.7	1005.2
25°	940.4	945.2	953.5	966.6	974.3
27.5°	903.6	908.9	916.7	932.7	939.8
30°	863.2	866.7	878.0	892.9	901.2
32.5°	820.4	823.9	833.4	851.3	858.4
35°	776.4	779.9	788.9	804.9	813.2
37.5°	728.8	731.8	742.5	755.0	763.9
40°	678.9	683.0	690.2	705.0	712.8
42.5°	630.1	631.9	639.6	654.5	660.5
45°	580.2	580.8	589.1	601.0	606.4
47.5°	528.5	529.7	539.8	546.9	552.3
50°	480.3	480.9	488.1	494.6	500.5
52.5°	432.2	432.2	435.7	442.9	450.6
55°	387.0	386.4	388.2	394.7	399.5
57.5°	344.2	343.6	346.0	350.1	353.7
60°	302.6	301.4	303.8	306.1	310.9
62.5°	265.7	266.9	263.9	267.5	271.1
65°	233.0	231.8	228.3	230.1	233.6
67.5°	205.1	203.3	197.4	198.6	202.7
70°	179.5	176.0	169.4	169.4	172.4
72.5°	156.3	152.8	144.5	145.0	146.2
75°	136.7	130.8	123.6	121.3	124.2
77.5°	115.3	110.6	104.0	102.2	103.4
80°	95.1	91.5	83.8	81.4	83.2
82.5°	75.5	72.5	63.6	61.8	62.4
85°	52.3	51.7	44.6	41.0	42.2
87.5°	27.9	28.5	23.2	20.8	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)