

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: P291974

Luminaire Tested: **22GR-LD5-24-F125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291974
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-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: 2304.0 lumens
Efficiency: N/A
Efficacy: 127.7 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

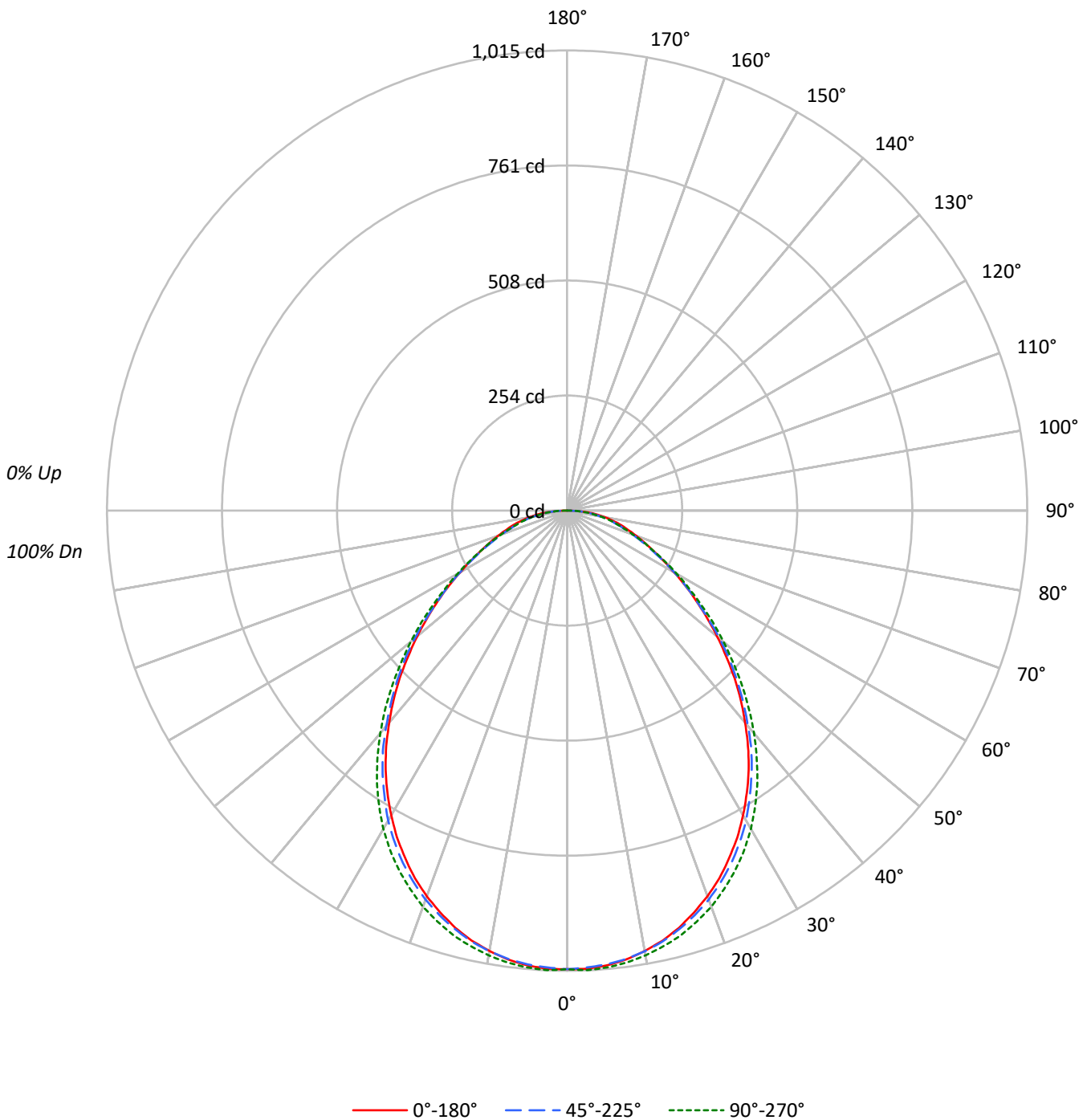
Input Watts (W): 18.042
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2722	2722	2722
5°	2721	2713	2732
10°	2695	2697	2722
15°	2654	2663	2702
20°	2592	2615	2662
25°	2511	2546	2602
30°	2412	2454	2518
35°	2294	2330	2402
40°	2145	2180	2252
45°	1986	2016	2075
50°	1809	1837	1884
55°	1633	1638	1686
60°	1464	1470	1505
65°	1335	1307	1338
70°	1270	1199	1220
75°	1279	1156	1161
80°	1325	1168	1159
85°	1451	1238	1173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	4.1
10°-20°	269.9	11.7
20°-30°	395.1	17.1
30°-40°	444.2	19.3
40°-50°	409.7	17.8
50°-60°	315.7	13.7
60°-70°	208.3	9.0
70°-80°	121.3	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°	760.6	33.0
0°-40°	1204.8	52.3
0°-60°	1930.2	83.8
0°-90°	2304.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2304.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1012	1012	1012	1012	1012	
5°	1007	1005	1004	1009	1012	95
15°	953	953	956	964	970	268
25°	846	850	858	869	876	389
35°	698	701	709	724	731	435
45°	522	522	530	540	545	402
55°	348	348	349	355	359	312
65°	210	208	205	207	210	210
75°	123	118	111	109	112	130
85°	47	46	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°	1011.5	1011.5	1011.5	1011.5	1011.5
2.5°	1011.5	1009.3	1008.8	1012.5	1014.7
5°	1007.2	1005.1	1004.5	1009.3	1011.5
7.5°	998.6	997.0	997.6	1002.9	1005.6
10°	986.3	985.8	986.9	992.8	996.0
12.5°	971.9	971.4	973.5	979.9	984.2
15°	952.7	952.7	955.9	964.4	969.8
17.5°	929.7	931.3	936.1	944.6	950.5
20°	905.1	906.7	913.1	922.7	929.7
22.5°	877.8	880.0	886.4	898.1	904.0
25°	845.7	850.0	857.5	869.3	876.2
27.5°	812.6	817.4	824.4	838.8	845.2
30°	776.2	779.4	789.6	803.0	810.5
32.5°	737.7	741.0	749.5	765.5	772.0
35°	698.2	701.4	709.4	723.9	731.3
37.5°	655.4	658.1	667.7	678.9	687.0
40°	610.5	614.3	620.7	634.0	641.0
42.5°	566.7	568.3	575.2	588.6	593.9
45°	521.8	522.3	529.8	540.5	545.3
47.5°	475.3	476.3	485.4	491.8	496.6
50°	432.0	432.5	438.9	444.8	450.1
52.5°	388.7	388.7	391.9	398.3	405.2
55°	348.0	347.5	349.1	355.0	359.3
57.5°	309.5	309.0	311.1	314.9	318.1
60°	272.1	271.0	273.2	275.3	279.6
62.5°	239.0	240.0	237.4	240.6	243.8
65°	209.6	208.5	205.3	206.9	210.1
67.5°	184.4	182.8	177.5	178.6	182.3
70°	161.4	158.2	152.4	152.4	155.0
72.5°	140.6	137.4	129.9	130.4	131.5
75°	123.0	117.6	111.2	109.1	111.7
77.5°	103.7	99.4	93.6	92.0	93.0
80°	85.5	82.3	75.4	73.2	74.8
82.5°	67.9	65.2	57.2	55.6	56.1
85°	47.0	46.5	40.1	36.9	38.0
87.5°	25.1	25.7	20.8	18.7	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)