

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: P292078

Luminaire Tested: **22GR-LD5-24-F125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292078
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-L92765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2300.0 lumens
Efficiency: N/A
Efficacy: 123.0 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

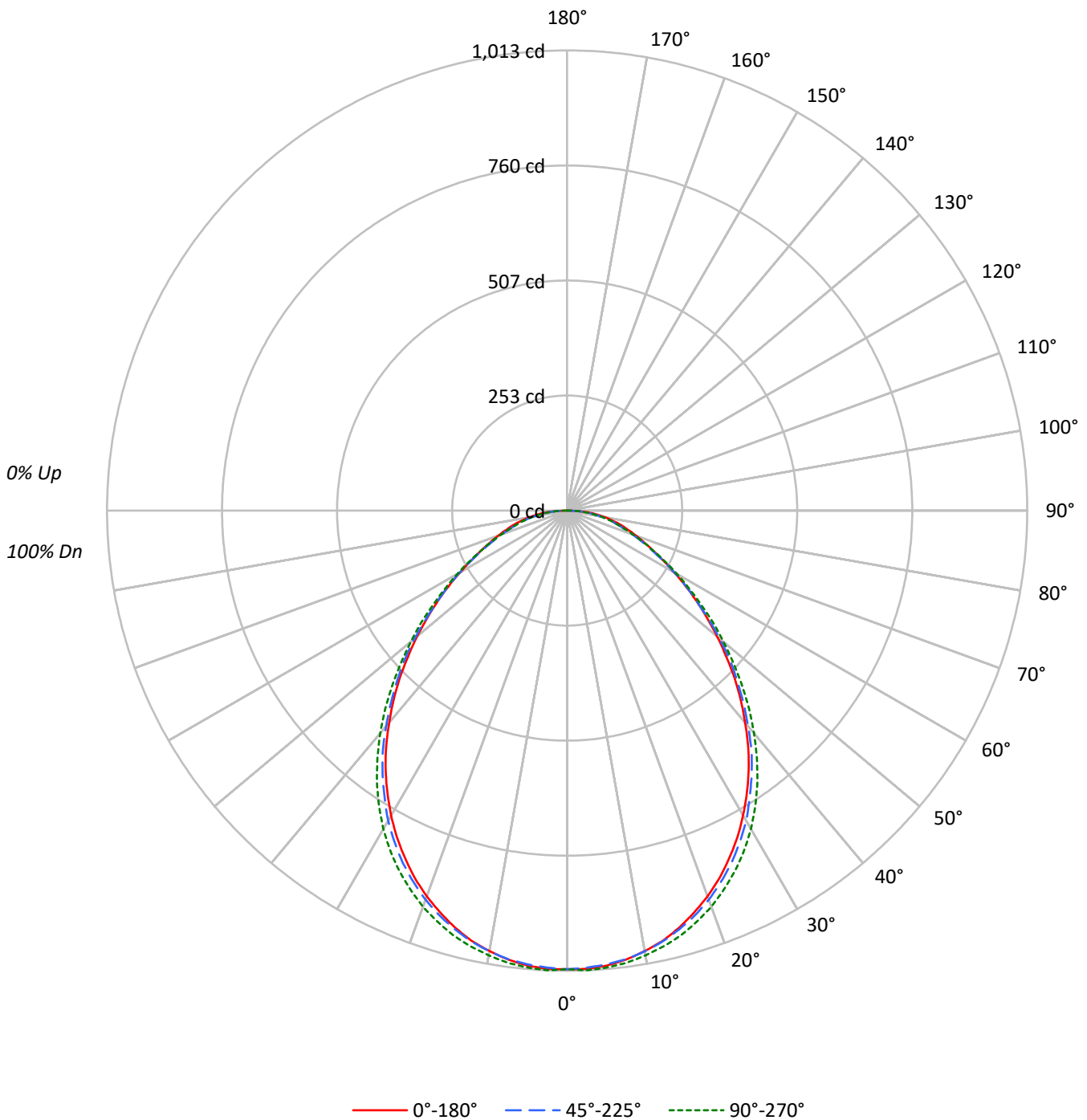
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2717	2717	2717
5°	2716	2709	2727
10°	2690	2692	2717
15°	2649	2658	2697
20°	2587	2610	2658
25°	2507	2542	2597
30°	2408	2449	2514
35°	2290	2326	2398
40°	2141	2177	2248
45°	1982	2013	2071
50°	1805	1834	1881
55°	1630	1635	1682
60°	1462	1468	1502
65°	1332	1305	1335
70°	1268	1197	1218
75°	1276	1154	1159
80°	1323	1165	1158
85°	1451	1235	1170



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	4.1
10°-20°	269.5	11.7
20°-30°	394.4	17.1
30°-40°	443.5	19.3
40°-50°	409.0	17.8
50°-60°	315.2	13.7
60°-70°	208.0	9.0
70°-80°	121.1	5.3
80°-90°	44.1	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°	759.3	33.0
0°-40°	1202.7	52.3
0°-60°	1926.9	83.8
0°-90°	2300.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2300.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1010	1010	1010	1010	1010	
5°	1005	1003	1003	1008	1010	95
15°	951	951	954	963	968	268
25°	844	848	856	868	875	388
35°	697	700	708	723	730	435
45°	521	521	529	540	544	401
55°	347	347	348	354	359	312
65°	209	208	205	206	210	210
75°	123	117	111	109	112	129
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°	1009.7	1009.7	1009.7	1009.7	1009.7
2.5°	1009.7	1007.6	1007.0	1010.8	1012.9
5°	1005.4	1003.3	1002.8	1007.6	1009.7
7.5°	996.9	995.3	995.8	1001.2	1003.8
10°	984.6	984.1	985.2	991.0	994.2
12.5°	970.2	969.7	971.8	978.2	982.5
15°	951.0	951.0	954.2	962.7	968.1
17.5°	928.1	929.7	934.5	943.0	948.9
20°	903.5	905.1	911.5	921.1	928.1
22.5°	876.3	878.4	884.8	896.6	902.4
25°	844.3	848.5	856.0	867.8	874.7
27.5°	811.2	816.0	822.9	837.3	843.7
30°	774.9	778.1	788.2	801.6	809.0
32.5°	736.5	739.7	748.2	764.2	770.6
35°	697.0	700.2	708.2	722.6	730.1
37.5°	654.3	657.0	666.6	677.8	685.8
40°	609.5	613.2	619.6	632.9	639.9
42.5°	565.7	567.3	574.2	587.6	592.9
45°	520.9	521.4	528.9	539.5	544.3
47.5°	474.4	475.5	484.6	491.0	495.8
50°	431.2	431.7	438.1	444.0	449.4
52.5°	388.0	388.0	391.2	397.6	404.5
55°	347.4	346.9	348.5	354.4	358.6
57.5°	309.0	308.5	310.6	314.3	317.5
60°	271.6	270.6	272.7	274.8	279.1
62.5°	238.6	239.6	237.0	240.2	243.4
65°	209.2	208.1	204.9	206.5	209.7
67.5°	184.1	182.5	177.2	178.2	182.0
70°	161.2	158.0	152.1	152.1	154.8
72.5°	140.4	137.2	129.7	130.2	131.3
75°	122.7	117.4	111.0	108.9	111.5
77.5°	103.5	99.3	93.4	91.8	92.9
80°	85.4	82.2	75.2	73.1	74.7
82.5°	67.8	65.1	57.1	55.5	56.0
85°	47.0	46.4	40.0	36.8	37.9
87.5°	25.1	25.6	20.8	18.7	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)