

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: P292115

Luminaire Tested: **22GR-LD5-40-F125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292115
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-LD5-40-F125-UNV-L92765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3870.0 lumens
Efficiency: N/A
Efficacy: 114.3 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

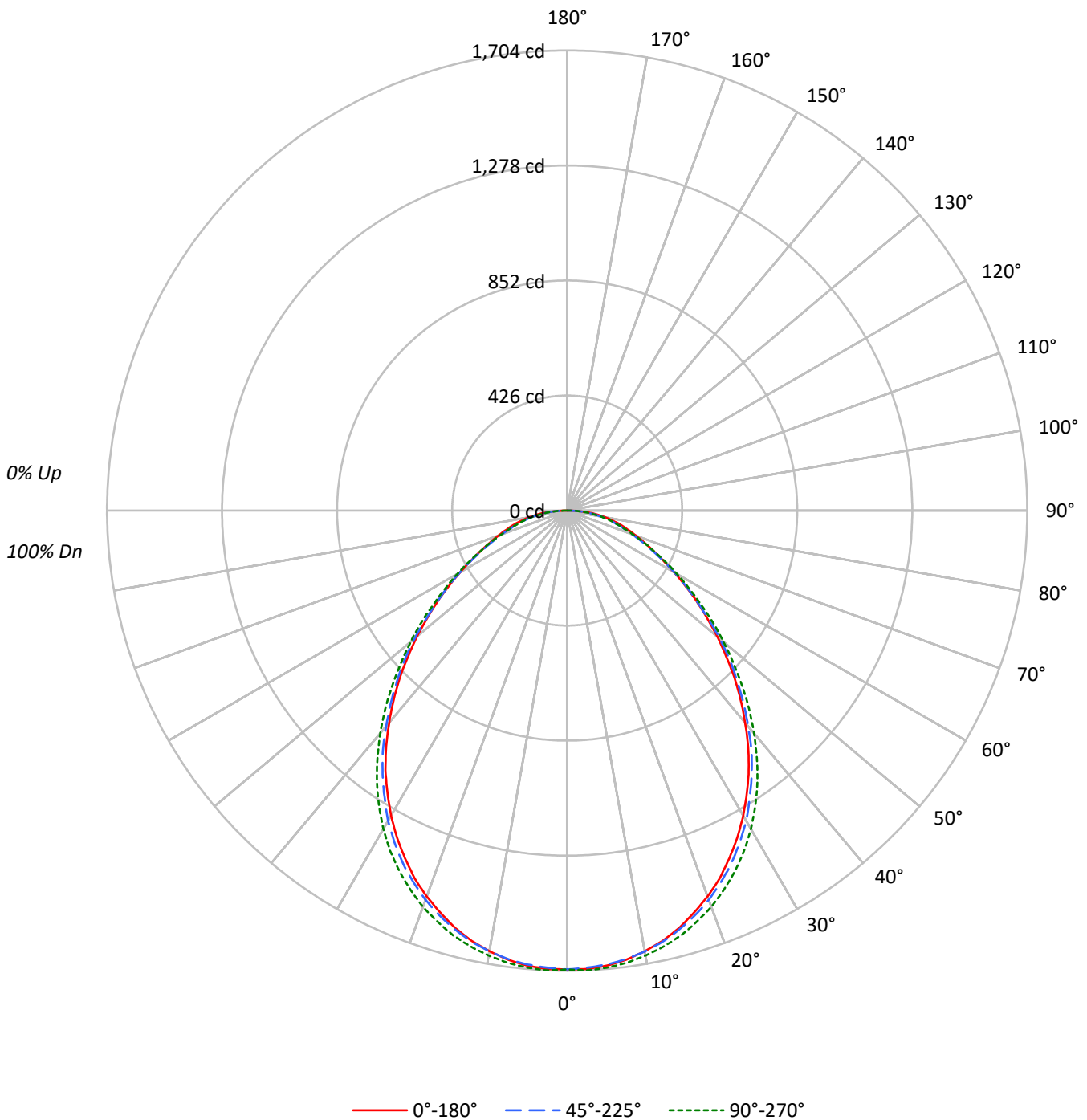
Input Watts (W): 33.852
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4572	4572	4572
5°	4570	4558	4589
10°	4527	4529	4571
15°	4458	4473	4538
20°	4354	4392	4472
25°	4218	4276	4370
30°	4051	4121	4230
35°	3852	3914	4035
40°	3602	3662	3782
45°	3335	3387	3486
50°	3038	3086	3165
55°	2743	2751	2831
60°	2460	2470	2527
65°	2241	2195	2247
70°	2134	2013	2049
75°	2147	1942	1952
80°	2227	1962	1948
85°	2439	2078	1970



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	4.1
10°-20°	453.4	11.7
20°-30°	663.6	17.1
30°-40°	746.1	19.3
40°-50°	688.1	17.8
50°-60°	530.3	13.7
60°-70°	350.0	9.0
70°-80°	203.7	5.3
80°-90°	74.2	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°	1277.6	33.0
0°-40°	2023.7	52.3
0°-60°	3242.2	83.8
0°-90°	3870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3870.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1699	1699	1699	1699	1699	
5°	1692	1688	1687	1695	1699	160
15°	1600	1600	1606	1620	1629	450
25°	1421	1428	1440	1460	1472	653
35°	1173	1178	1192	1216	1228	731
45°	876	877	890	908	916	675
55°	585	584	586	596	603	524
65°	352	350	345	348	353	353
75°	206	198	187	183	188	218
85°	79	78	67	62	64	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1698.9	1698.9	1698.9	1698.9	1698.9
2.5°	1698.9	1695.4	1694.5	1700.7	1704.3
5°	1691.8	1688.2	1687.3	1695.4	1698.9
7.5°	1677.4	1674.7	1675.6	1684.6	1689.1
10°	1656.7	1655.8	1657.6	1667.5	1672.9
12.5°	1632.5	1631.6	1635.2	1646.0	1653.1
15°	1600.2	1600.2	1605.6	1619.9	1628.9
17.5°	1561.6	1564.3	1572.3	1586.7	1596.6
20°	1520.3	1522.9	1533.7	1549.9	1561.6
22.5°	1474.5	1478.0	1488.8	1508.6	1518.5
25°	1420.6	1427.8	1440.3	1460.1	1471.8
27.5°	1364.9	1373.0	1384.7	1408.9	1419.7
30°	1303.8	1309.2	1326.3	1348.7	1361.3
32.5°	1239.2	1244.6	1258.9	1285.9	1296.7
35°	1172.7	1178.1	1191.6	1215.8	1228.4
37.5°	1100.9	1105.4	1121.6	1140.4	1153.9
40°	1025.5	1031.8	1042.5	1065.0	1076.7
42.5°	951.8	954.5	966.2	988.7	997.6
45°	876.4	877.3	889.9	907.8	915.9
47.5°	798.3	800.1	815.4	826.1	834.2
50°	725.6	726.5	737.2	747.1	756.1
52.5°	652.8	652.8	658.2	669.0	680.7
55°	584.6	583.7	586.4	596.2	603.4
57.5°	519.9	519.0	522.6	528.9	534.3
60°	457.1	455.3	458.9	462.5	469.6
62.5°	401.4	403.2	398.7	404.1	409.5
65°	352.0	350.2	344.8	347.5	352.9
67.5°	309.8	307.1	298.1	299.9	306.2
70°	271.2	265.8	255.9	255.9	260.4
72.5°	236.2	230.8	218.2	219.1	220.9
75°	206.5	197.6	186.8	183.2	187.7
77.5°	174.2	167.0	157.1	154.4	156.2
80°	143.7	138.3	126.6	123.0	125.7
82.5°	114.0	109.6	96.1	93.4	94.3
85°	79.0	78.1	67.3	62.0	63.8
87.5°	42.2	43.1	35.0	31.4	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)