

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: P292018

Luminaire Tested: **22GR-LD5-43-F125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292018
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-LD5-43-F125-UNV-L82765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3995.0 lumens
Efficiency: N/A
Efficacy: 113.6 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

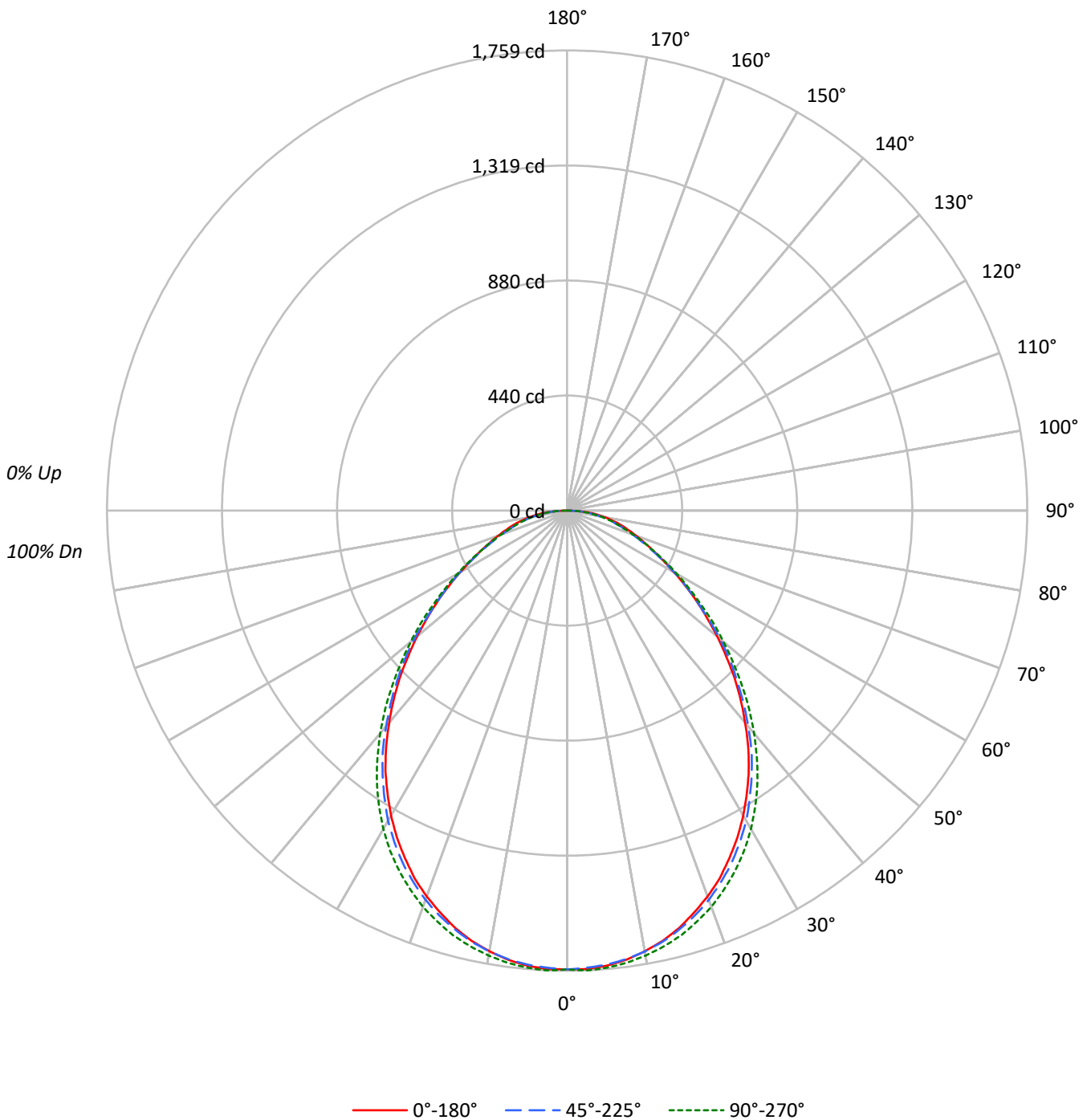
Input Watts (W): 35.154
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4719	4719	4719
5°	4717	4705	4737
10°	4673	4676	4719
15°	4602	4617	4685
20°	4494	4534	4616
25°	4354	4415	4511
30°	4182	4254	4367
35°	3977	4041	4166
40°	3719	3781	3904
45°	3443	3496	3598
50°	3136	3186	3268
55°	2831	2840	2922
60°	2539	2549	2609
65°	2314	2267	2320
70°	2202	2079	2115
75°	2217	2005	2014
80°	2298	2025	2011
85°	2519	2146	2032



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.7	4.1
10°-20°	468.1	11.7
20°-30°	685.1	17.1
30°-40°	770.2	19.3
40°-50°	710.3	17.8
50°-60°	547.5	13.7
60°-70°	361.3	9.0
70°-80°	210.3	5.3
80°-90°	76.6	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°	1318.8	33.0
0°-40°	2089.1	52.3
0°-60°	3346.9	83.8
0°-90°	3995.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3995.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1754	1754	1754	1754	1754	
5°	1746	1743	1742	1750	1754	166
15°	1652	1652	1657	1672	1682	465
25°	1466	1474	1487	1507	1519	675
35°	1211	1216	1230	1255	1268	755
45°	905	906	919	937	946	697
55°	604	602	605	616	623	541
65°	363	362	356	359	364	364
75°	213	204	193	189	194	225
85°	82	81	70	64	66	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1753.8	1753.8	1753.8	1753.8	1753.8
2.5°	1753.8	1750.1	1749.2	1755.7	1759.4
5°	1746.4	1742.7	1741.8	1750.1	1753.8
7.5°	1731.6	1728.8	1729.7	1739.0	1743.6
10°	1710.3	1709.3	1711.2	1721.4	1726.9
12.5°	1685.2	1684.3	1688.0	1699.1	1706.5
15°	1651.9	1651.9	1657.4	1672.2	1681.5
17.5°	1612.0	1614.8	1623.1	1638.0	1648.1
20°	1569.4	1572.1	1583.3	1599.9	1612.0
22.5°	1522.1	1525.8	1536.9	1557.3	1567.5
25°	1466.5	1473.9	1486.9	1507.2	1519.3
27.5°	1409.0	1417.3	1429.4	1454.4	1465.5
30°	1346.0	1351.5	1369.1	1392.3	1405.3
32.5°	1279.2	1284.8	1299.6	1327.4	1338.5
35°	1210.6	1216.2	1230.1	1255.1	1268.1
37.5°	1136.5	1141.1	1157.8	1177.2	1191.2
40°	1058.6	1065.1	1076.2	1099.4	1111.4
42.5°	982.6	985.4	997.4	1020.6	1029.9
45°	904.7	905.6	918.6	937.2	945.5
47.5°	824.1	825.9	841.7	852.8	861.2
50°	749.0	749.9	761.0	771.2	780.5
52.5°	673.9	673.9	679.5	690.6	702.6
55°	603.5	602.5	605.3	615.5	622.9
57.5°	536.7	535.8	539.5	546.0	551.5
60°	471.8	470.0	473.7	477.4	484.8
62.5°	414.4	416.2	411.6	417.1	422.7
65°	363.4	361.5	356.0	358.7	364.3
67.5°	319.8	317.0	307.8	309.6	316.1
70°	279.9	274.4	264.2	264.2	268.8
72.5°	243.8	238.2	225.3	226.2	228.0
75°	213.2	203.9	192.8	189.1	193.7
77.5°	179.8	172.4	162.2	159.4	161.3
80°	148.3	142.8	130.7	127.0	129.8
82.5°	117.7	113.1	99.2	96.4	97.3
85°	81.6	80.6	69.5	64.0	65.8
87.5°	43.6	44.5	36.2	32.4	34.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)