

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: P291961

Luminaire Tested: **22GR-LD5-43-F125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291961
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-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: 4572.0 lumens
Efficiency: N/A
Efficacy: 127.0 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

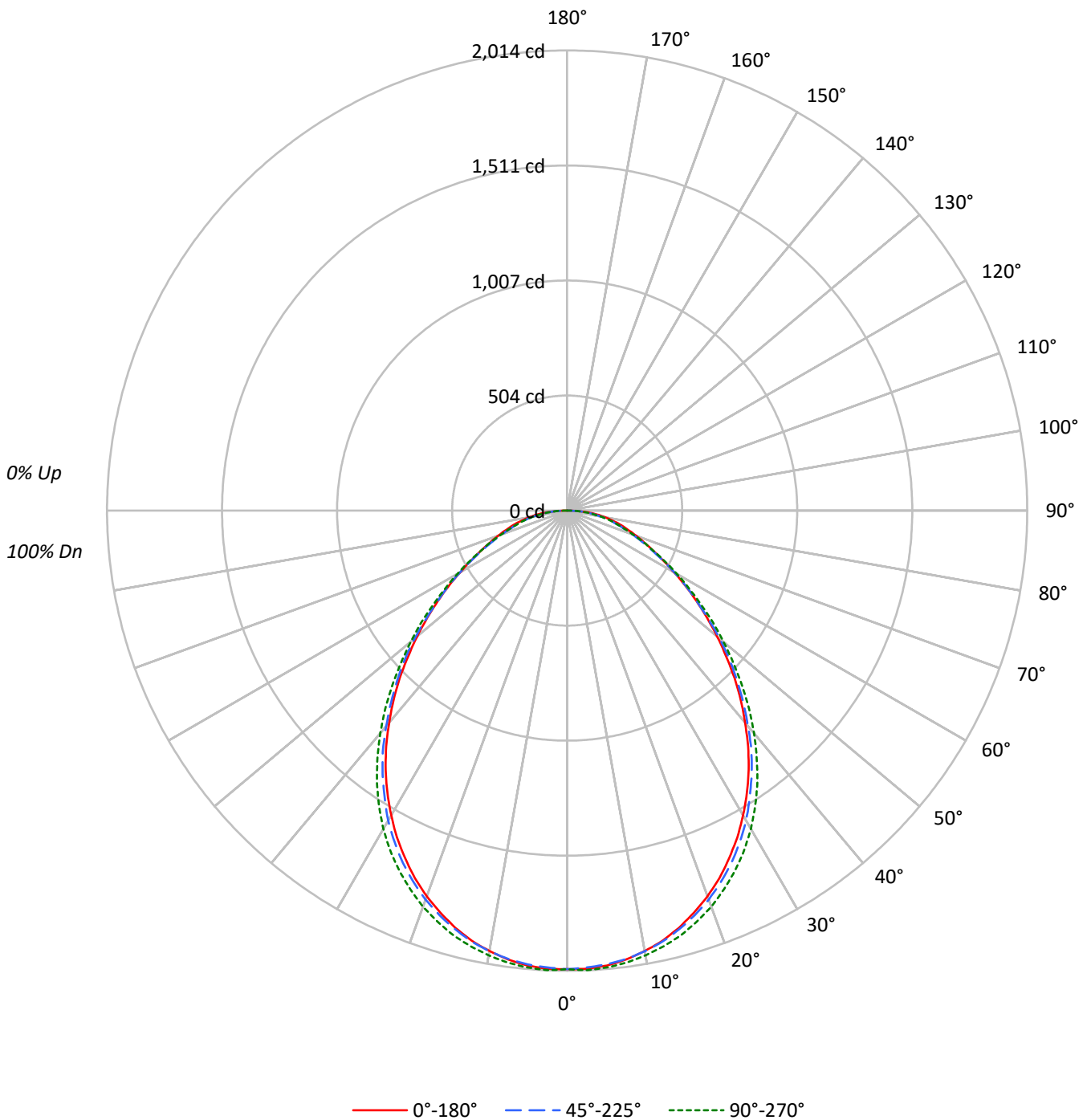
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5401	5401	5401
5°	5399	5384	5422
10°	5348	5351	5400
15°	5266	5284	5361
20°	5143	5189	5283
25°	4983	5052	5162
30°	4786	4869	4997
35°	4551	4624	4767
40°	4256	4326	4468
45°	3940	4001	4118
50°	3589	3646	3739
55°	3240	3250	3345
60°	2906	2918	2986
65°	2648	2594	2655
70°	2521	2378	2420
75°	2537	2295	2305
80°	2630	2318	2301
85°	2884	2458	2325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.6	4.1
10°-20°	535.7	11.7
20°-30°	784.0	17.1
30°-40°	881.5	19.3
40°-50°	812.9	17.8
50°-60°	626.5	13.7
60°-70°	413.4	9.0
70°-80°	240.6	5.3
80°-90°	87.7	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°	1509.3	33.0
0°-40°	2390.8	52.3
0°-60°	3830.3	83.8
0°-90°	4572.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4572.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2007	2007	2007	2007	2007	
5°	1999	1994	1993	2003	2007	189
15°	1890	1890	1897	1914	1924	532
25°	1678	1687	1702	1725	1739	772
35°	1386	1392	1408	1436	1451	864
45°	1035	1036	1051	1072	1082	797
55°	691	690	693	704	713	620
65°	416	414	407	410	417	417
75°	244	233	221	216	222	257
85°	93	92	80	73	75	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2007.1	2007.1	2007.1	2007.1	2007.1
2.5°	2007.1	2002.9	2001.8	2009.2	2013.5
5°	1998.6	1994.4	1993.3	2002.9	2007.1
7.5°	1981.7	1978.5	1979.5	1990.2	1995.5
10°	1957.3	1956.2	1958.3	1970.0	1976.4
12.5°	1928.6	1927.6	1931.8	1944.5	1953.0
15°	1890.4	1890.4	1896.8	1913.8	1924.4
17.5°	1844.8	1848.0	1857.5	1874.5	1886.2
20°	1796.0	1799.2	1811.9	1831.0	1844.8
22.5°	1741.9	1746.2	1758.9	1782.2	1793.9
25°	1678.3	1686.8	1701.6	1724.9	1738.7
27.5°	1612.5	1622.0	1635.8	1664.5	1677.2
30°	1540.4	1546.7	1566.9	1593.4	1608.2
32.5°	1464.0	1470.3	1487.3	1519.1	1531.9
35°	1385.5	1391.8	1407.7	1436.4	1451.2
37.5°	1300.6	1305.9	1325.0	1347.3	1363.2
40°	1211.5	1218.9	1231.6	1258.2	1272.0
42.5°	1124.5	1127.7	1141.5	1168.0	1178.6
45°	1035.4	1036.4	1051.3	1072.5	1082.1
47.5°	943.1	945.2	963.3	976.0	985.5
50°	857.2	858.2	871.0	882.6	893.2
52.5°	771.2	771.2	777.6	790.3	804.1
55°	690.6	689.6	692.7	704.4	712.9
57.5°	614.2	613.2	617.4	624.8	631.2
60°	540.0	537.9	542.1	546.3	554.8
62.5°	474.2	476.3	471.0	477.4	483.7
65°	415.9	413.7	407.4	410.5	416.9
67.5°	366.0	362.8	352.2	354.3	361.7
70°	320.4	314.0	302.3	302.3	307.6
72.5°	279.0	272.6	257.8	258.8	261.0
75°	244.0	233.4	220.7	216.4	221.7
77.5°	205.8	197.3	185.6	182.5	184.6
80°	169.7	163.4	149.6	145.3	148.5
82.5°	134.7	129.4	113.5	110.3	111.4
85°	93.4	92.3	79.6	73.2	75.3
87.5°	49.9	50.9	41.4	37.1	39.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)