

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: P292027

Luminaire Tested: **22GR-LD5-20-F125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292027
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-LD5-20-F125-UNV-L93050-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1617.0 lumens
Efficiency: N/A
Efficacy: 102.3 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

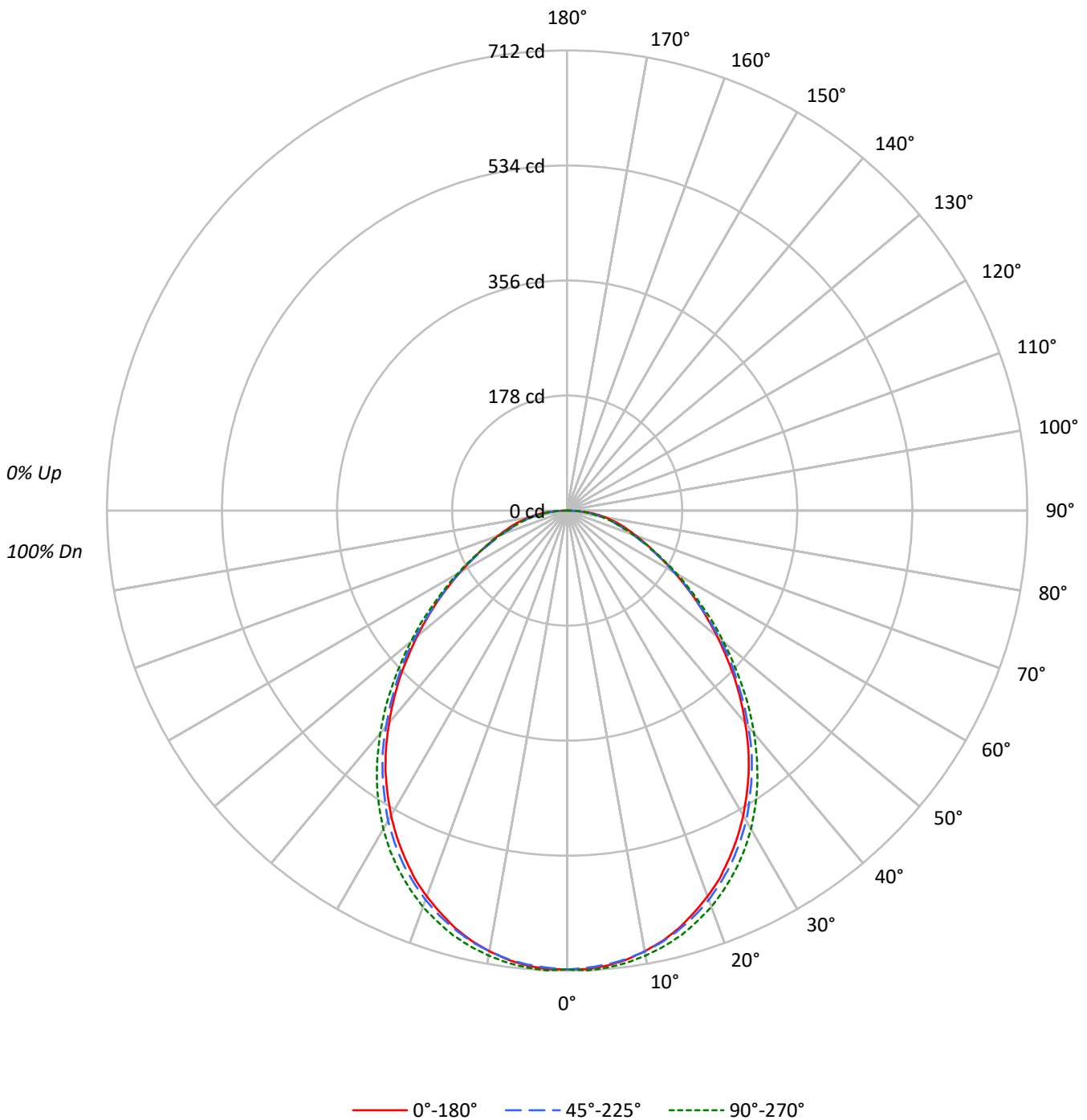
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1910	1910	1910
5°	1910	1904	1918
10°	1891	1893	1910
15°	1863	1869	1896
20°	1819	1835	1869
25°	1762	1787	1826
30°	1693	1722	1767
35°	1610	1636	1686
40°	1505	1530	1580
45°	1394	1415	1456
50°	1269	1289	1322
55°	1146	1149	1183
60°	1028	1032	1056
65°	937	918	939
70°	891	841	856
75°	897	811	815
80°	930	820	814
85°	1019	868	821



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	4.1
10°-20°	189.5	11.7
20°-30°	277.3	17.1
30°-40°	311.8	19.3
40°-50°	287.5	17.8
50°-60°	221.6	13.7
60°-70°	146.2	9.0
70°-80°	85.1	5.3
80°-90°	31.0	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°	533.8	33.0
0°-40°	845.6	52.3
0°-60°	1354.7	83.8
0°-90°	1617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	710	710	710	710	710	
5°	707	705	705	708	710	67
15°	669	669	671	677	681	188
25°	594	597	602	610	615	273
35°	490	492	498	508	513	306
45°	366	367	372	379	383	282
55°	244	244	245	249	252	219
65°	147	146	144	145	148	147
75°	86	82	78	76	78	91
85°	33	33	28	26	27	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	709.9	709.9	709.9	709.9	709.9
2.5°	709.9	708.4	708.0	710.6	712.1
5°	706.9	705.4	705.0	708.4	709.9
7.5°	700.9	699.7	700.1	703.9	705.7
10°	692.2	691.9	692.6	696.7	699.0
12.5°	682.1	681.7	683.2	687.7	690.7
15°	668.6	668.6	670.8	676.9	680.6
17.5°	652.5	653.6	657.0	663.0	667.1
20°	635.2	636.3	640.8	647.6	652.5
22.5°	616.1	617.6	622.1	630.3	634.5
25°	593.6	596.6	601.8	610.1	614.9
27.5°	570.3	573.7	578.6	588.7	593.2
30°	544.8	547.0	554.2	563.5	568.8
32.5°	517.8	520.0	526.0	537.3	541.8
35°	490.0	492.3	497.9	508.0	513.3
37.5°	460.0	461.9	468.6	476.5	482.1
40°	428.5	431.1	435.6	445.0	449.9
42.5°	397.7	398.8	403.7	413.1	416.8
45°	366.2	366.6	371.8	379.3	382.7
47.5°	333.5	334.3	340.7	345.2	348.6
50°	303.2	303.5	308.0	312.2	315.9
52.5°	272.8	272.8	275.0	279.5	284.4
55°	244.3	243.9	245.0	249.1	252.1
57.5°	217.2	216.9	218.4	221.0	223.2
60°	191.0	190.2	191.7	193.2	196.2
62.5°	167.7	168.5	166.6	168.8	171.1
65°	147.1	146.3	144.1	145.2	147.5
67.5°	129.4	128.3	124.6	125.3	127.9
70°	113.3	111.1	106.9	106.9	108.8
72.5°	98.7	96.4	91.2	91.5	92.3
75°	86.3	82.5	78.0	76.5	78.4
77.5°	72.8	69.8	65.7	64.5	65.3
80°	60.0	57.8	52.9	51.4	52.5
82.5°	47.6	45.8	40.1	39.0	39.4
85°	33.0	32.6	28.1	25.9	26.6
87.5°	17.6	18.0	14.6	13.1	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)