

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: P291872

Luminaire Tested: **22GR-LD5-20-F1-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-F1-UNV-L92765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1951.0 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

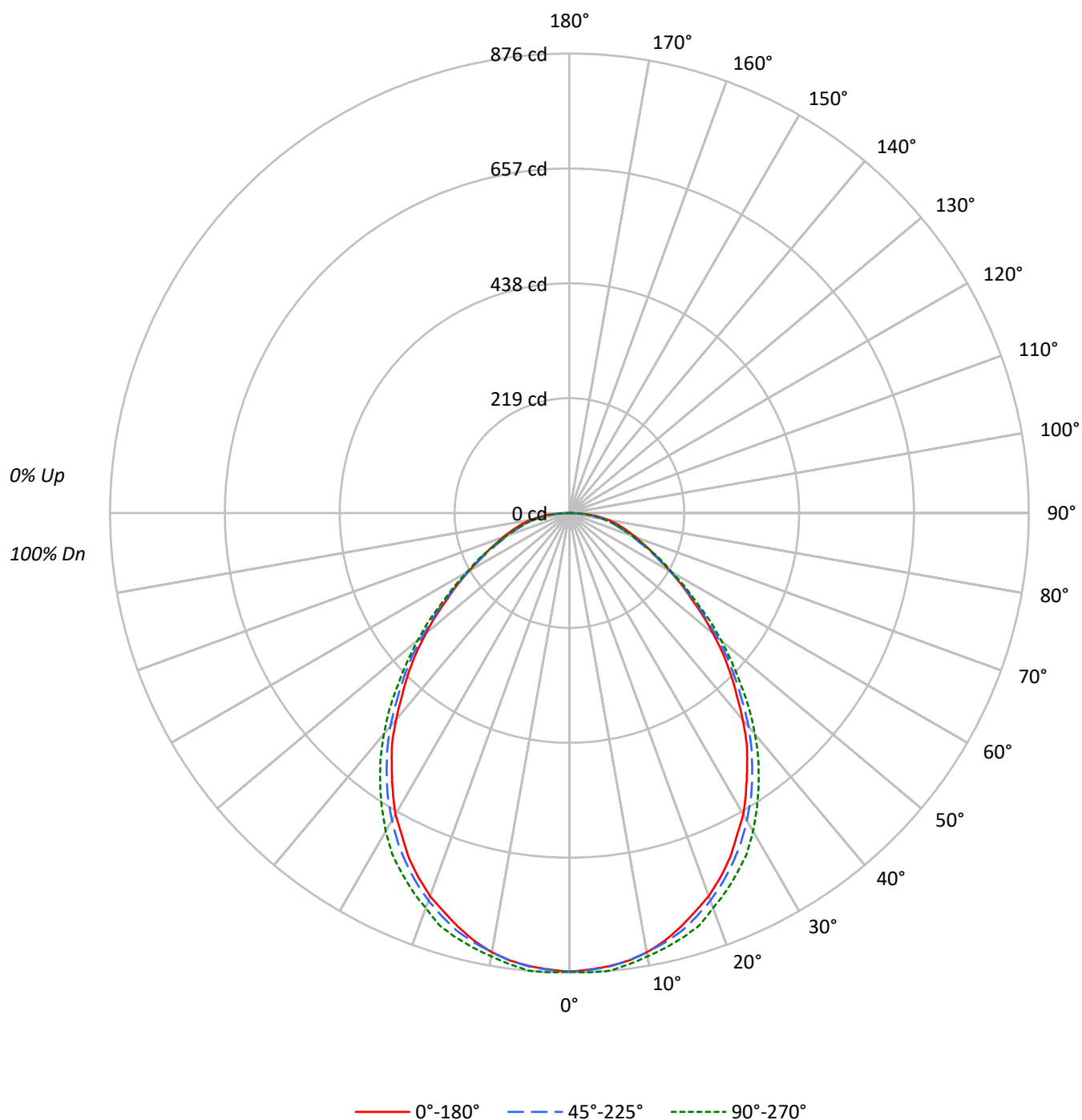
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	101	98	107	103	99	96		99	96	93		95	92	90		91	89	87
2	101	93	87	81	98	91	85	80		87	83	78		84	80	77		81	78	75
3	92	83	75	69	90	81	74	68		78	72	67		75	70	66		73	69	65
4	85	74	66	59	83	73	65	59		70	63	58		68	62	57		66	61	57
5	79	67	58	52	77	66	58	52		63	56	51		62	55	51		60	54	50
6	73	60	52	46	71	59	51	46		58	51	45		56	50	45		55	49	45
7	68	55	47	41	66	54	46	41		53	46	41		51	45	40		50	44	40
8	63	51	42	37	62	50	42	37		49	42	37		47	41	36		46	40	36
9	59	47	39	33	58	46	39	33		45	38	33		44	38	33		43	37	33
10	56	43	36	31	55	43	35	30		42	35	30		41	35	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2353	2353	2353
5°	2342	2345	2367
10°	2324	2323	2345
15°	2277	2299	2333
20°	2225	2251	2294
25°	2151	2186	2247
30°	2061	2103	2176
35°	1940	1996	2067
40°	1806	1867	1935
45°	1658	1705	1758
50°	1495	1533	1582
55°	1327	1358	1381
60°	1189	1192	1216
65°	1096	1059	1096
70°	1057	980	1009
75°	1076	960	978
80°	1159	1007	1007
85°	1288	1065	1053



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	4.2
10°-20°	232.6	11.9
20°-30°	339.5	17.4
30°-40°	380.1	19.5
40°-50°	345.9	17.7
50°-60°	260.4	13.3
60°-70°	169.9	8.7
70°-80°	101.9	5.2
80°-90°	38.2	2.0
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°	654.6	33.6
0°-40°	1034.7	53.0
0°-60°	1641.0	84.1
0°-90°	1951.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1951.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	874	874	874	874	874	
5°	867	866	868	871	876	82
15°	817	818	825	832	838	230
25°	725	727	736	750	757	333
35°	591	596	608	622	629	369
45°	436	440	448	458	462	335
55°	283	287	290	294	294	256
65°	172	170	166	169	172	172
75°	104	100	92	93	94	110
85°	42	40	34	33	34	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	874.3	874.3	874.3	874.3	874.3
2.5°	871.1	870.7	872.0	874.3	876.5
5°	867.1	865.8	868.0	871.1	876.1
7.5°	860.8	860.8	860.8	866.7	867.6
10°	850.5	851.4	850.1	855.9	858.2
12.5°	835.7	836.2	838.9	844.7	848.7
15°	817.4	818.3	825.4	832.2	837.5
17.5°	796.8	799.9	806.6	817.4	824.1
20°	777.0	780.6	786.0	797.7	801.2
22.5°	751.9	756.0	762.7	773.0	780.6
25°	724.6	726.9	736.3	749.7	756.9
27.5°	691.9	696.8	708.5	722.4	732.2
30°	663.2	665.9	676.7	692.8	700.4
32.5°	626.9	635.0	644.0	658.3	665.5
35°	590.6	596.0	607.7	622.0	629.2
37.5°	555.7	558.8	570.5	582.6	591.5
40°	514.0	519.8	531.5	544.5	550.7
42.5°	472.3	480.8	488.5	501.4	508.2
45°	435.6	440.1	448.1	457.5	462.0
47.5°	397.0	399.3	408.7	414.5	419.4
50°	357.2	359.8	366.1	371.9	377.8
52.5°	320.4	322.6	326.7	332.1	337.9
55°	282.8	286.8	289.5	293.5	294.4
57.5°	252.3	251.8	253.6	256.8	259.9
60°	220.9	221.8	221.4	224.5	225.9
62.5°	194.9	194.5	191.8	196.3	199.9
65°	172.1	170.3	166.3	168.9	172.1
67.5°	151.0	150.1	143.4	145.6	148.3
70°	134.4	131.3	124.6	125.9	128.2
72.5°	118.3	114.7	108.0	108.4	109.8
75°	103.5	99.9	92.3	92.8	94.1
77.5°	89.6	85.1	78.4	77.5	78.4
80°	74.8	70.8	65.0	62.3	65.0
82.5°	59.6	57.4	50.6	47.9	48.8
85°	41.7	40.3	34.5	32.7	34.1
87.5°	19.3	20.6	17.5	16.1	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)