

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: P291774

Luminaire Tested: **22GR-LD5-20-F1-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291774
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-L82765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2162.0 lumens
Efficiency: N/A
Efficacy: 136.0 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

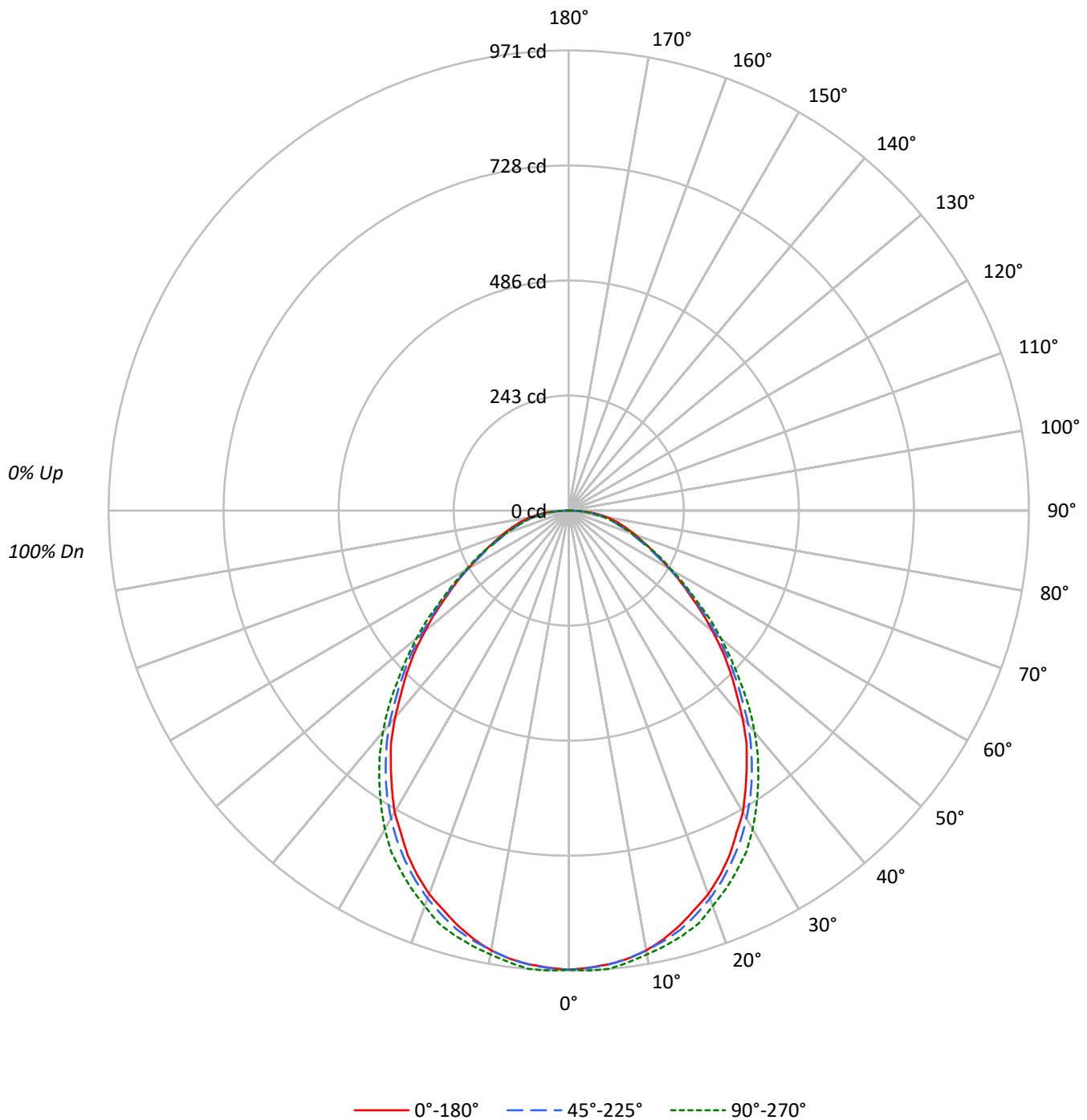
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2607	2607	2607
5°	2596	2598	2622
10°	2575	2574	2599
15°	2523	2548	2586
20°	2466	2494	2543
25°	2384	2423	2490
30°	2284	2330	2412
35°	2150	2212	2290
40°	2001	2069	2144
45°	1837	1890	1948
50°	1657	1698	1752
55°	1470	1505	1531
60°	1318	1320	1347
65°	1214	1173	1214
70°	1172	1087	1117
75°	1193	1064	1084
80°	1285	1116	1116
85°	1426	1179	1164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	4.2
10°-20°	257.8	11.9
20°-30°	376.2	17.4
30°-40°	421.2	19.5
40°-50°	383.3	17.7
50°-60°	288.5	13.3
60°-70°	188.3	8.7
70°-80°	112.9	5.2
80°-90°	42.4	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°	725.4	33.6
0°-40°	1146.6	53.0
0°-60°	1818.5	84.1
0°-90°	2162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2162.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	969	969	969	969	969	
5°	961	959	962	965	971	91
15°	906	907	915	922	928	255
25°	803	806	816	831	839	369
35°	654	660	673	689	697	409
45°	483	488	497	507	512	372
55°	313	318	321	325	326	283
65°	191	189	184	187	191	191
75°	115	111	102	103	104	122
85°	46	45	38	36	38	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	968.8	968.8	968.8	968.8	968.8
2.5°	965.4	964.9	966.4	968.8	971.3
5°	960.9	959.4	961.9	965.4	970.8
7.5°	953.9	953.9	953.9	960.4	961.4
10°	942.5	943.5	942.0	948.5	951.0
12.5°	926.1	926.6	929.6	936.1	940.5
15°	905.8	906.8	914.7	922.2	928.1
17.5°	882.9	886.4	893.9	905.8	913.2
20°	861.1	865.1	871.0	883.9	887.9
22.5°	833.3	837.7	845.2	856.6	865.1
25°	803.0	805.5	815.9	830.8	838.7
27.5°	766.7	772.2	785.1	800.5	811.4
30°	734.9	737.9	749.8	767.7	776.2
32.5°	694.7	703.7	713.6	729.5	737.4
35°	654.5	660.5	673.4	689.3	697.2
37.5°	615.8	619.2	632.2	645.6	655.5
40°	569.6	576.0	589.0	603.4	610.3
42.5°	523.4	532.8	541.3	555.7	563.1
45°	482.7	487.6	496.6	507.0	512.0
47.5°	440.0	442.5	452.9	459.3	464.8
50°	395.8	398.8	405.7	412.2	418.6
52.5°	355.1	357.5	362.0	368.0	374.4
55°	313.3	317.8	320.8	325.3	326.3
57.5°	279.6	279.1	281.1	284.5	288.0
60°	244.8	245.8	245.3	248.8	250.3
62.5°	216.0	215.5	212.5	217.5	221.5
65°	190.7	188.7	184.2	187.2	190.7
67.5°	167.3	166.4	158.9	161.4	164.4
70°	149.0	145.5	138.1	139.5	142.0
72.5°	131.1	127.1	119.7	120.2	121.7
75°	114.7	110.7	102.3	102.8	104.3
77.5°	99.3	94.4	86.9	85.9	86.9
80°	82.9	78.5	72.0	69.0	72.0
82.5°	66.0	63.6	56.1	53.1	54.1
85°	46.2	44.7	38.2	36.3	37.7
87.5°	21.4	22.8	19.4	17.9	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)