

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: P291776

Luminaire Tested: **22GR-LD5-20-F1-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291776
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-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2173.0 lumens
Efficiency: N/A
Efficacy: 135.1 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

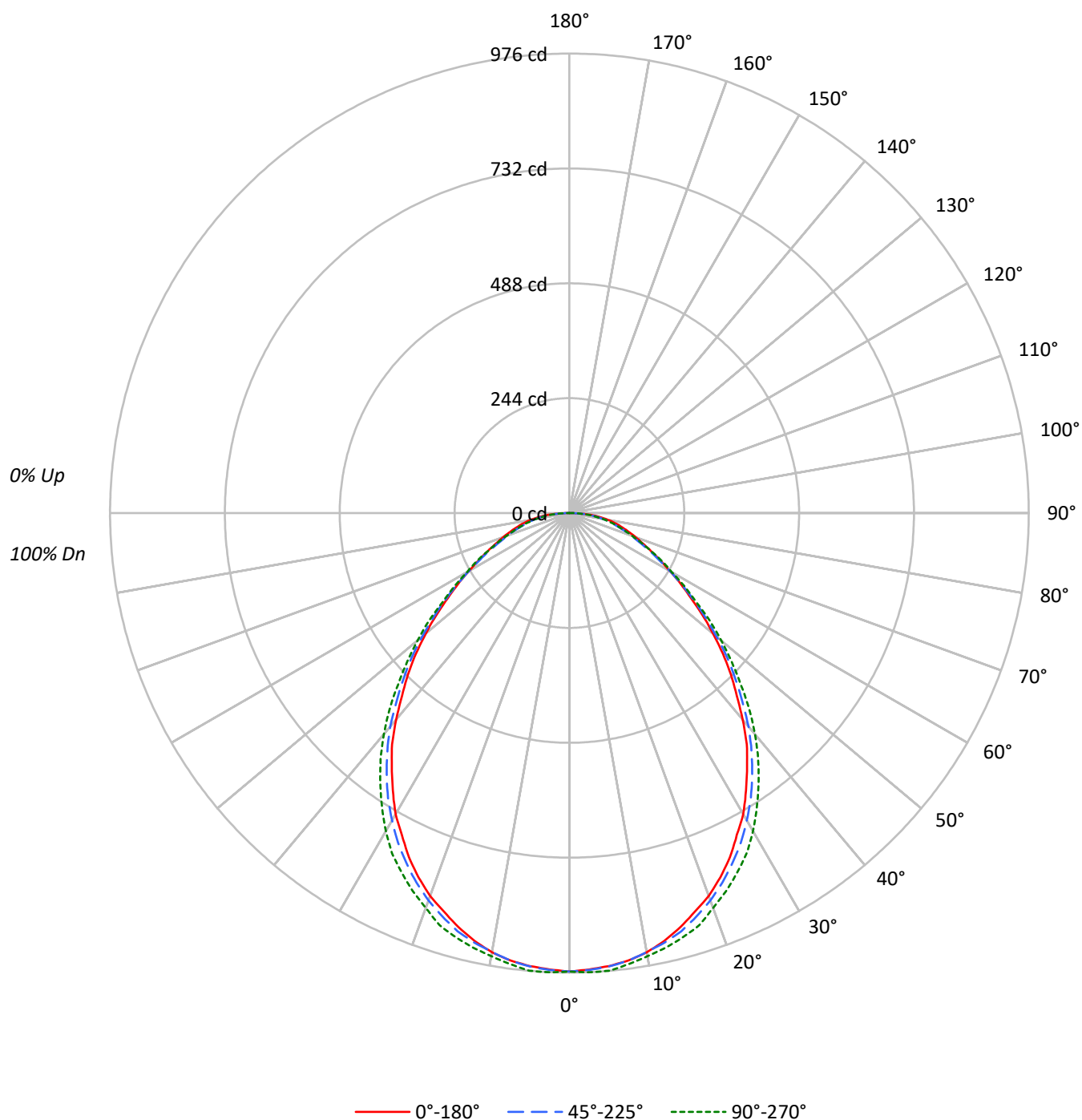
Input Watts (W): 16.089
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2620	2620	2620
5°	2609	2612	2636
10°	2588	2587	2612
15°	2536	2561	2599
20°	2479	2507	2556
25°	2396	2435	2503
30°	2295	2342	2424
35°	2161	2223	2302
40°	2011	2079	2155
45°	1846	1899	1958
50°	1665	1707	1762
55°	1477	1513	1538
60°	1324	1327	1354
65°	1221	1179	1221
70°	1178	1092	1123
75°	1199	1069	1090
80°	1292	1122	1122
85°	1433	1186	1170



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.9	4.2
10°-20°	259.1	11.9
20°-30°	378.1	17.4
30°-40°	423.3	19.5
40°-50°	385.3	17.7
50°-60°	290.0	13.3
60°-70°	189.3	8.7
70°-80°	113.5	5.2
80°-90°	42.6	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°	729.1	33.6
0°-40°	1152.4	53.0
0°-60°	1827.7	84.1
0°-90°	2173.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2173.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	974	974	974	974	974	
5°	966	964	967	970	976	92
15°	910	911	919	927	933	256
25°	807	810	820	835	843	371
35°	658	664	677	693	701	411
45°	485	490	499	510	515	374
55°	315	319	322	327	328	285
65°	192	190	185	188	192	192
75°	115	111	103	103	105	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°	973.8	973.8	973.8	973.8	973.8
2.5°	970.3	969.8	971.3	973.8	976.3
5°	965.8	964.3	966.8	970.3	975.8
7.5°	958.8	958.8	958.8	965.3	966.3
10°	947.3	948.3	946.8	953.3	955.8
12.5°	930.8	931.3	934.3	940.8	945.3
15°	910.4	911.4	919.4	926.9	932.8
17.5°	887.4	890.9	898.4	910.4	917.9
20°	865.5	869.5	875.4	888.4	892.4
22.5°	837.5	842.0	849.5	861.0	869.5
25°	807.1	809.6	820.0	835.0	843.0
27.5°	770.6	776.1	789.1	804.6	815.5
30°	738.7	741.7	753.7	771.6	780.1
32.5°	698.3	707.2	717.2	733.2	741.2
35°	657.8	663.8	676.8	692.8	700.8
37.5°	618.9	622.4	635.4	648.8	658.8
40°	572.5	579.0	591.9	606.4	613.4
42.5°	526.1	535.5	544.0	558.5	566.0
45°	485.1	490.1	499.1	509.6	514.6
47.5°	442.2	444.7	455.2	461.7	467.2
50°	397.8	400.8	407.8	414.3	420.8
52.5°	356.9	359.4	363.9	369.8	376.3
55°	314.9	319.4	322.4	326.9	327.9
57.5°	281.0	280.5	282.5	286.0	289.5
60°	246.1	247.1	246.6	250.1	251.6
62.5°	217.1	216.6	213.6	218.6	222.6
65°	191.7	189.7	185.2	188.2	191.7
67.5°	168.2	167.2	159.7	162.2	165.2
70°	149.7	146.2	138.8	140.3	142.7
72.5°	131.8	127.8	120.3	120.8	122.3
75°	115.3	111.3	102.8	103.3	104.8
77.5°	99.8	94.8	87.3	86.3	87.3
80°	83.4	78.9	72.4	69.4	72.4
82.5°	66.4	63.9	56.4	53.4	54.4
85°	46.4	44.9	38.4	36.4	37.9
87.5°	21.5	23.0	19.5	18.0	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)