

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: P292163

Luminaire Tested: **22GR-LD5-20-A-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292163
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-A-UNV-L82765-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2069.0 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

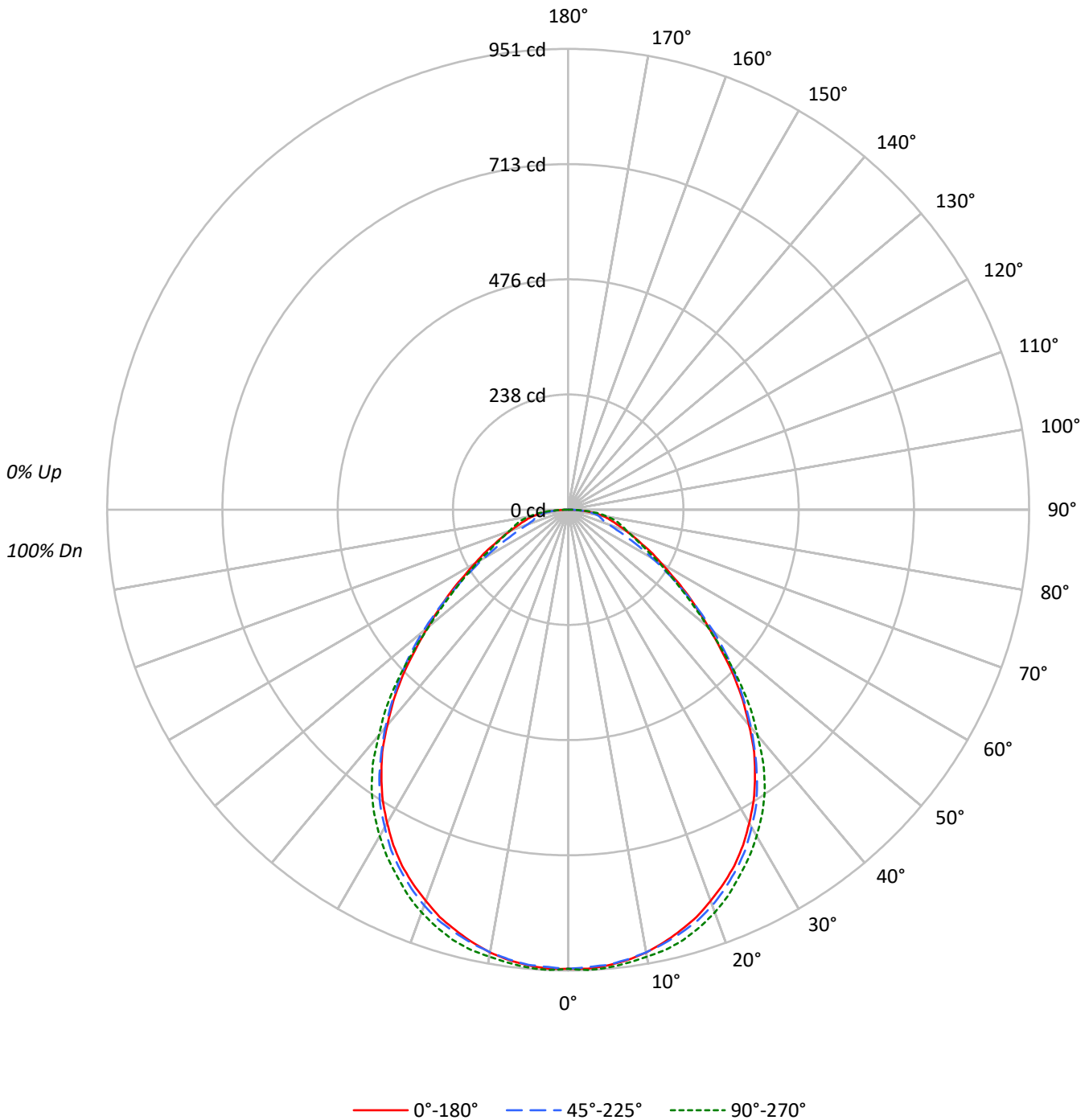
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2550	2550	2550
5°	2551	2546	2562
10°	2535	2534	2559
15°	2503	2516	2561
20°	2460	2489	2533
25°	2407	2434	2479
30°	2321	2352	2416
35°	2206	2232	2322
40°	2040	2062	2134
45°	1832	1865	1894
50°	1584	1641	1568
55°	1383	1346	1328
60°	1197	1078	1151
65°	1070	846	1033
70°	992	701	1019
75°	991	741	1131
80°	1097	933	1275
85°	1145	1010	1442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	4.3
10°-20°	255.4	12.3
20°-30°	377.7	18.3
30°-40°	426.2	20.6
40°-50°	375.7	18.2
50°-60°	257.7	12.5
60°-70°	152.1	7.4
70°-80°	94.9	4.6
80°-90°	39.6	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°	722.7	34.9
0°-40°	1149.0	55.5
0°-60°	1782.4	86.1
0°-90°	2069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2069.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	944	942	943	946	948	90
15°	898	899	903	914	919	253
25°	811	814	820	830	835	372
35°	672	677	679	696	707	418
45°	482	484	490	493	498	370
55°	295	287	287	277	283	264
65°	168	148	133	154	162	169
75°	95	86	71	100	109	102
85°	37	35	33	43	47	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	947.5	947.5	947.5	947.5	947.5
2.5°	948.0	945.6	944.6	948.5	950.9
5°	944.2	942.2	942.7	946.1	948.5
7.5°	937.4	936.0	936.0	940.8	943.2
10°	927.8	927.3	927.3	933.1	936.5
12.5°	914.3	914.8	916.7	924.4	930.2
15°	898.4	899.4	903.2	914.3	919.1
17.5°	881.1	881.1	888.8	897.5	903.2
20°	858.9	860.4	869.0	878.7	884.5
22.5°	836.3	838.7	845.9	857.0	862.3
25°	810.8	813.7	819.9	830.5	834.9
27.5°	780.9	784.8	791.5	799.2	808.4
30°	746.8	752.5	756.9	767.5	777.6
32.5°	712.1	717.4	722.2	733.3	744.8
35°	671.6	677.4	679.4	695.7	706.8
37.5°	630.2	632.6	633.6	650.0	662.0
40°	580.6	585.5	586.9	599.9	607.6
42.5°	533.0	534.9	537.8	547.4	556.6
45°	481.5	483.9	490.1	493.0	497.8
47.5°	427.5	434.8	442.0	432.8	433.3
50°	378.4	384.2	391.9	374.6	374.6
52.5°	334.6	337.5	338.0	323.5	326.4
55°	294.7	287.4	287.0	277.3	283.1
57.5°	254.7	245.1	241.7	238.8	245.5
60°	222.4	205.1	200.3	204.6	213.8
62.5°	196.0	173.8	164.7	175.7	183.9
65°	168.0	147.8	132.9	153.6	162.3
67.5°	146.4	127.1	107.8	137.2	143.5
70°	126.1	111.2	89.1	124.7	129.5
72.5°	109.8	98.2	77.0	112.7	118.4
75°	95.3	85.7	71.3	99.7	108.8
77.5°	83.8	73.2	66.4	86.2	97.3
80°	70.8	60.2	60.2	72.2	82.3
82.5°	55.9	47.2	48.6	58.7	66.0
85°	37.1	34.7	32.7	42.9	46.7
87.5°	18.8	19.3	17.3	22.1	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)