

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: P292260

Luminaire Tested: **22GR-LD5-20-A-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292260
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-L92765-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1773.0 lumens
Efficiency: N/A
Efficacy: 114.8 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

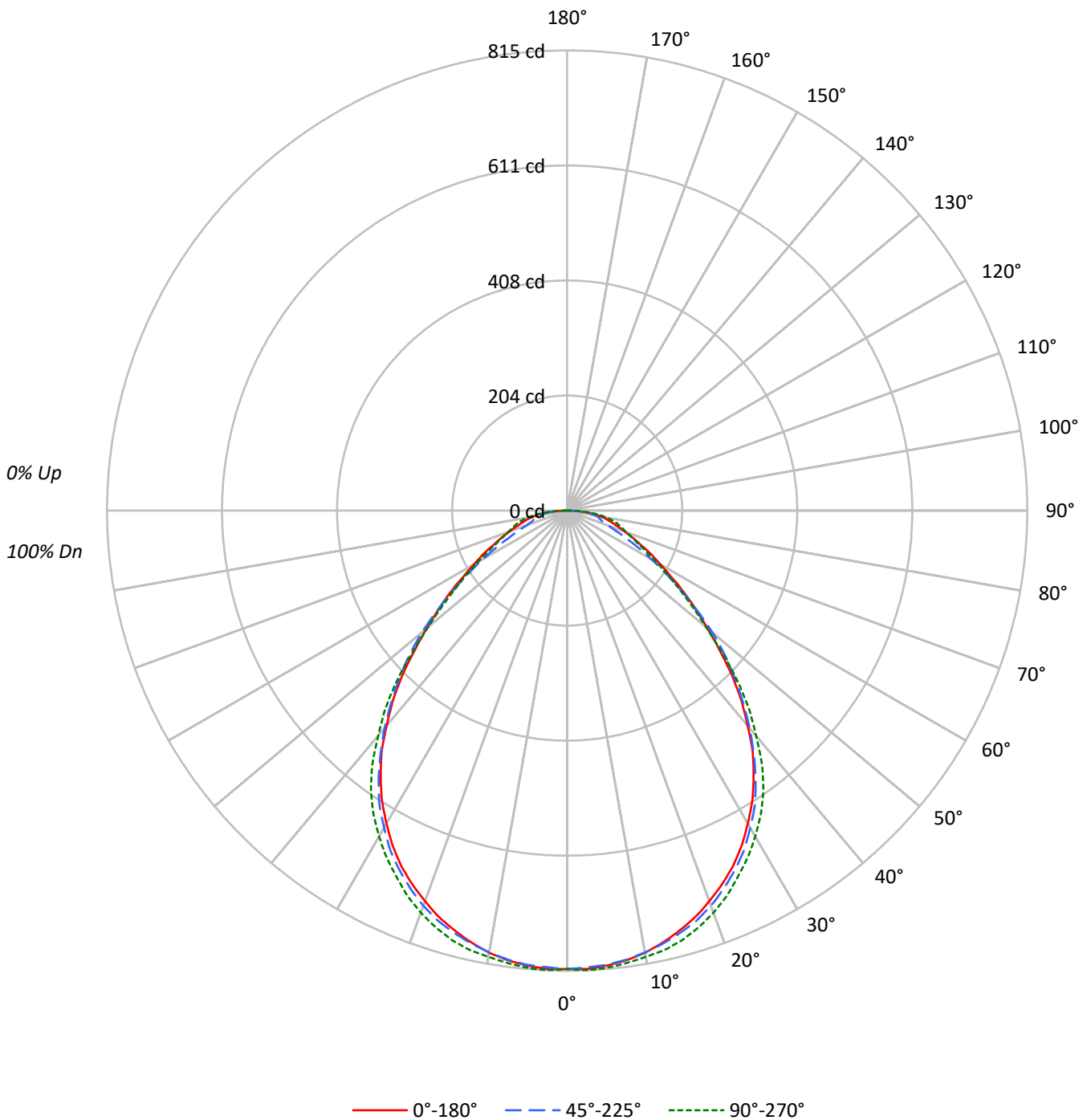
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292260

CATALOG NUMBER: 22GR-LD5-20-A-UNV-L92765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P292260

CATALOG NUMBER: 22GR-LD5-20-A-UNV-L92765-W2A1-U-3500K

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°	2185	2185	2185
5°	2186	2182	2196
10°	2173	2171	2193
15°	2145	2156	2194
20°	2108	2133	2170
25°	2063	2086	2124
30°	1988	2015	2070
35°	1891	1913	1990
40°	1748	1767	1829
45°	1570	1598	1623
50°	1358	1406	1344
55°	1185	1154	1138
60°	1026	924	986
65°	917	725	885
70°	851	600	873
75°	849	635	969
80°	941	800	1094
85°	982	868	1235



TEST NUMBER: P292260

CATALOG NUMBER: 22GR-LD5-20-A-UNV-L92765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	4.3
10°-20°	218.8	12.3
20°-30°	323.7	18.3
30°-40°	365.2	20.6
40°-50°	322.0	18.2
50°-60°	220.9	12.5
60°-70°	130.3	7.4
70°-80°	81.3	4.6
80°-90°	33.9	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°	619.3	34.9
0°-40°	984.6	55.5
0°-60°	1527.4	86.1
0°-90°	1773.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1773.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	812	812	812	812	812	
5°	809	807	808	811	813	77
15°	770	771	774	784	788	217
25°	695	697	703	712	715	319
35°	576	580	582	596	606	359
45°	413	415	420	422	427	317
55°	252	246	246	238	243	226
65°	144	127	114	132	139	145
75°	82	73	61	85	93	88
85°	32	30	28	37	40	34
90°	0	0	0	0	0	



TEST NUMBER: P292260

CATALOG NUMBER: 22GR-LD5-20-A-UNV-L92765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	812.0	812.0	812.0	812.0	812.0
2.5°	812.4	810.3	809.5	812.8	814.9
5°	809.1	807.4	807.8	810.7	812.8
7.5°	803.3	802.1	802.1	806.2	808.3
10°	795.1	794.6	794.6	799.6	802.5
12.5°	783.5	783.9	785.6	792.2	797.1
15°	769.9	770.7	774.0	783.5	787.6
17.5°	755.0	755.0	761.6	769.1	774.0
20°	736.1	737.3	744.7	753.0	757.9
22.5°	716.7	718.7	724.9	734.4	738.9
25°	694.8	697.3	702.6	711.7	715.4
27.5°	669.2	672.5	678.3	684.9	692.7
30°	639.9	644.9	648.6	657.7	666.3
32.5°	610.2	614.8	618.9	628.4	638.3
35°	575.6	580.5	582.2	596.2	605.7
37.5°	540.1	542.1	543.0	557.0	567.3
40°	497.6	501.7	502.9	514.1	520.7
42.5°	456.7	458.4	460.9	469.1	476.9
45°	412.6	414.6	420.0	422.5	426.6
47.5°	366.4	372.6	378.8	370.9	371.3
50°	324.3	329.2	335.8	321.0	321.0
52.5°	286.7	289.2	289.6	277.3	279.7
55°	252.5	246.3	245.9	237.6	242.6
57.5°	218.3	210.0	207.1	204.6	210.4
60°	190.6	175.8	171.6	175.3	183.2
62.5°	167.9	148.9	141.1	150.6	157.6
65°	144.0	126.7	113.9	131.6	139.0
67.5°	125.4	108.9	92.4	117.6	123.0
70°	108.1	95.3	76.3	106.9	111.0
72.5°	94.1	84.2	66.0	96.5	101.5
75°	81.7	73.4	61.1	85.4	93.2
77.5°	71.8	62.7	56.9	73.9	83.3
80°	60.7	51.6	51.6	61.9	70.6
82.5°	47.9	40.4	41.7	50.3	56.5
85°	31.8	29.7	28.1	36.7	40.0
87.5°	16.1	16.5	14.9	19.0	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)