

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: P292259

Luminaire Tested: **22GR-LD5-20-A-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292259
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-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1689.0 lumens
Efficiency: N/A
Efficacy: 110.7 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

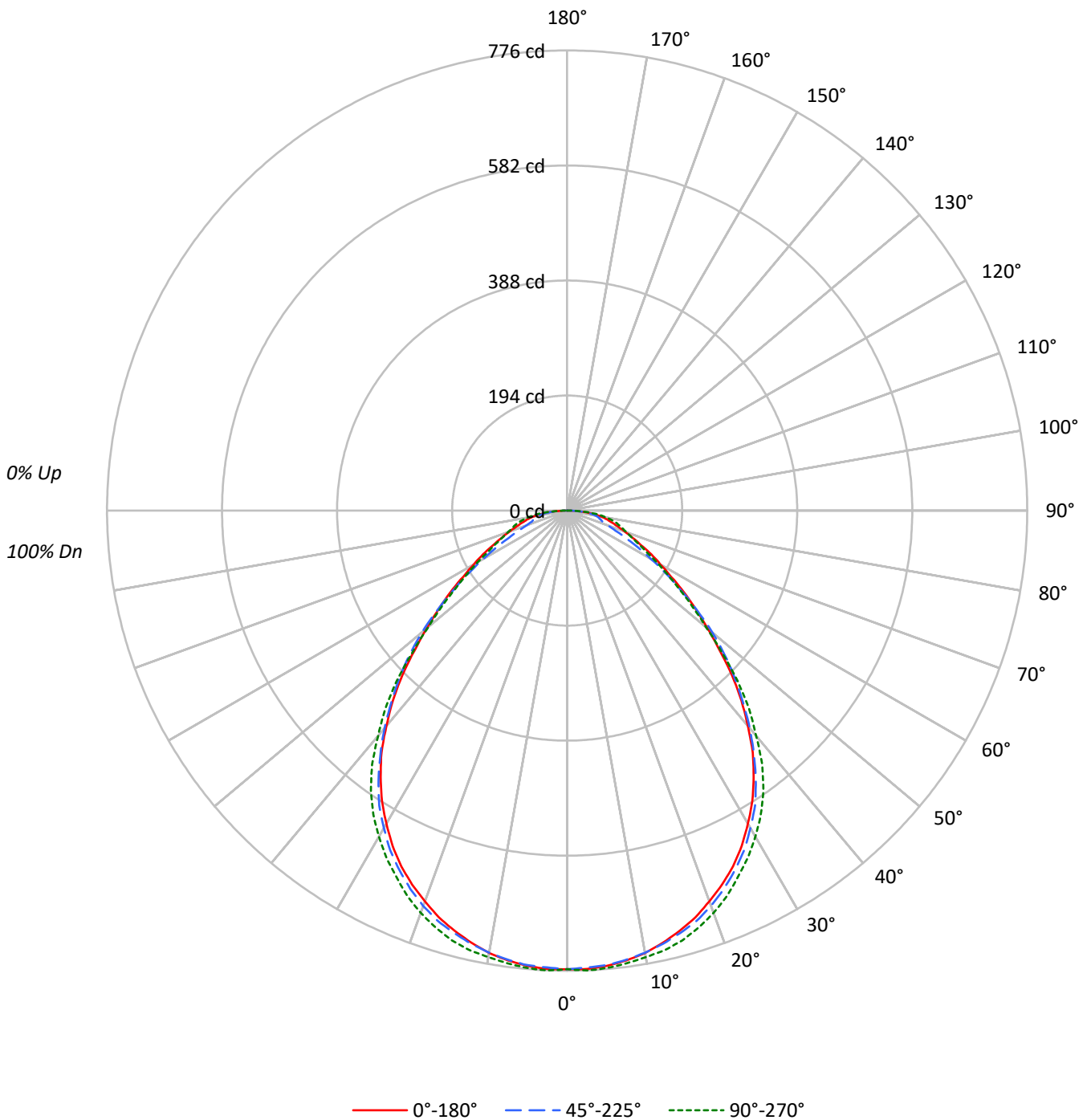
Input Watts (W): 15.252
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2081	2081	2081
5°	2082	2079	2092
10°	2070	2068	2089
15°	2043	2054	2090
20°	2008	2031	2068
25°	1965	1987	2023
30°	1894	1920	1972
35°	1801	1822	1895
40°	1665	1683	1742
45°	1496	1523	1547
50°	1293	1339	1280
55°	1128	1099	1084
60°	977	880	939
65°	874	691	844
70°	810	572	832
75°	809	605	923
80°	896	761	1041
85°	936	824	1176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	4.3
10°-20°	208.5	12.3
20°-30°	308.3	18.3
30°-40°	347.9	20.6
40°-50°	306.7	18.2
50°-60°	210.4	12.5
60°-70°	124.2	7.4
70°-80°	77.5	4.6
80°-90°	32.3	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°	590.0	34.9
0°-40°	937.9	55.5
0°-60°	1455.0	86.1
0°-90°	1689.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1689.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	771	769	770	772	774	73
15°	733	734	737	746	750	207
25°	662	664	669	678	682	304
35°	548	553	555	568	577	342
45°	393	395	400	402	406	302
55°	240	235	234	226	231	216
65°	137	121	108	125	132	138
75°	78	70	58	81	89	83
85°	30	28	27	35	38	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	773.5	773.5	773.5	773.5	773.5
2.5°	773.9	771.9	771.1	774.3	776.3
5°	770.7	769.2	769.6	772.3	774.3
7.5°	765.2	764.1	764.1	768.0	770.0
10°	757.4	757.0	757.0	761.7	764.5
12.5°	746.4	746.8	748.3	754.6	759.4
15°	733.4	734.2	737.3	746.4	750.3
17.5°	719.3	719.3	725.6	732.6	737.3
20°	701.2	702.4	709.4	717.3	722.0
22.5°	682.7	684.7	690.6	699.6	703.9
25°	661.9	664.2	669.3	678.0	681.5
27.5°	637.5	640.7	646.2	652.4	659.9
30°	609.6	614.3	617.9	626.5	634.8
32.5°	581.3	585.6	589.6	598.6	608.0
35°	548.3	553.0	554.6	567.9	577.0
37.5°	514.5	516.5	517.2	530.6	540.4
40°	474.0	477.9	479.1	489.7	496.0
42.5°	435.1	436.7	439.0	446.9	454.4
45°	393.0	395.0	400.1	402.5	406.4
47.5°	349.0	354.9	360.8	353.3	353.7
50°	308.9	313.6	319.9	305.8	305.8
52.5°	273.2	275.5	275.9	264.1	266.5
55°	240.5	234.6	234.3	226.4	231.1
57.5°	207.9	200.1	197.3	194.9	200.4
60°	181.6	167.4	163.5	167.0	174.5
62.5°	160.0	141.9	134.4	143.5	150.1
65°	137.2	120.7	108.5	125.4	132.5
67.5°	119.5	103.8	88.0	112.0	117.1
70°	103.0	90.8	72.7	101.8	105.7
72.5°	89.6	80.2	62.9	92.0	96.7
75°	77.8	70.0	58.2	81.4	88.8
77.5°	68.4	59.7	54.2	70.4	79.4
80°	57.8	49.1	49.1	59.0	67.2
82.5°	45.6	38.5	39.7	48.0	53.8
85°	30.3	28.3	26.7	35.0	38.1
87.5°	15.3	15.7	14.1	18.1	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)