

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: P292165

Luminaire Tested: **22GR-LD5-20-A-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292165  
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-5000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2134.0 lumens  
Efficiency: N/A  
Efficacy: 135.0 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

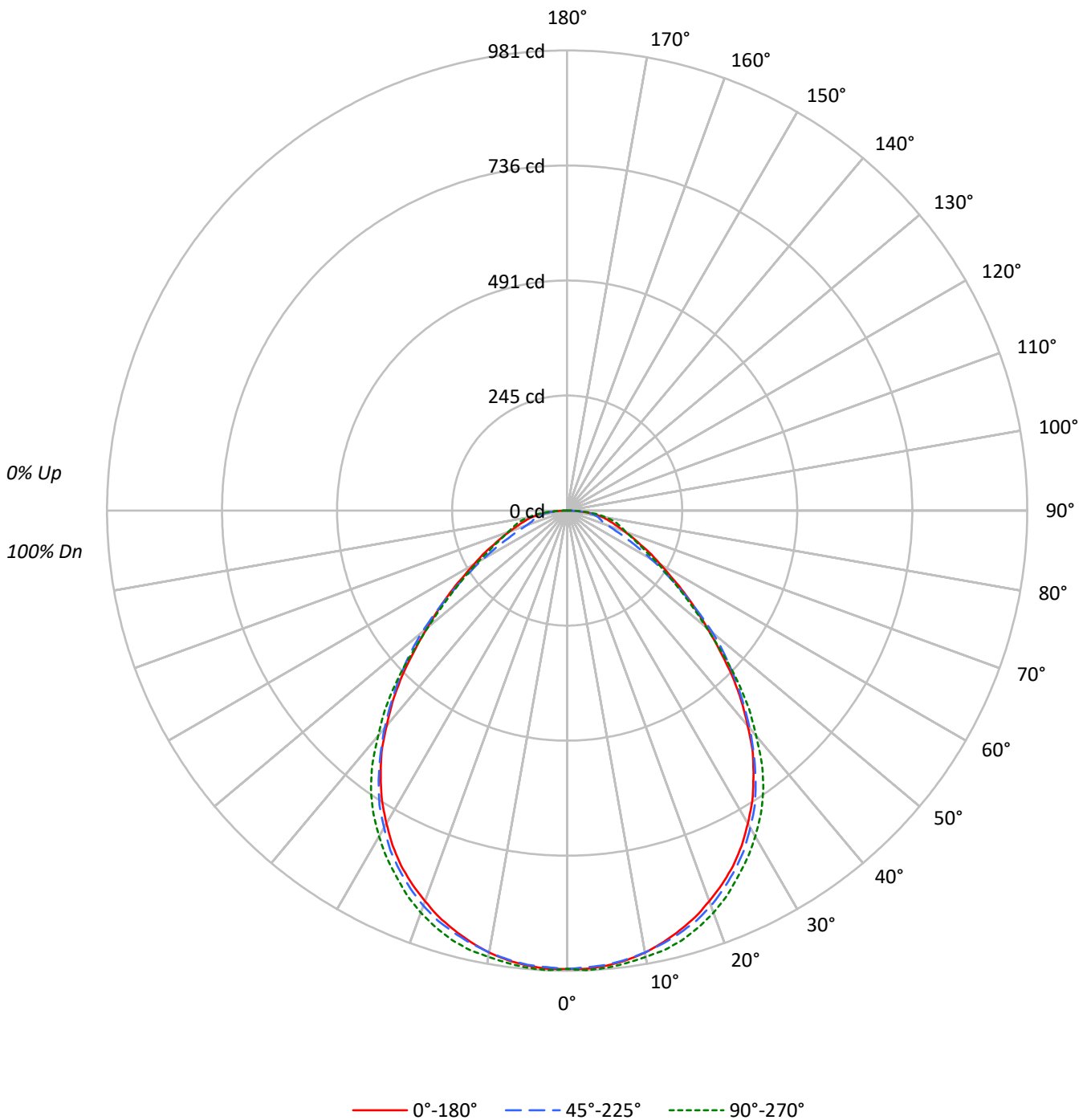
Input Watts (W): 15.81  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2630	2630	2630
5°	2630	2626	2643
10°	2615	2613	2639
15°	2581	2595	2641
20°	2537	2567	2612
25°	2483	2511	2557
30°	2393	2426	2492
35°	2276	2302	2395
40°	2104	2126	2201
45°	1890	1924	1954
50°	1634	1692	1617
55°	1426	1389	1370
60°	1235	1112	1187
65°	1103	873	1066
70°	1024	723	1051
75°	1022	764	1167
80°	1131	962	1316
85°	1179	1044	1488



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.5	4.3
10°-20°	263.4	12.3
20°-30°	389.6	18.3
30°-40°	439.6	20.6
40°-50°	387.5	18.2
50°-60°	265.8	12.5
60°-70°	156.9	7.4
70°-80°	97.9	4.6
80°-90°	40.8	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°	745.4	34.9
0°-40°	1185.0	55.5
0°-60°	1838.4	86.1
0°-90°	2134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2134.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	977	977	977	977	977	
5°	974	972	972	976	978	92
15°	927	928	932	943	948	261
25°	836	839	846	857	861	384
35°	693	699	701	718	729	432
45°	497	499	506	508	514	381
55°	304	296	296	286	292	273
65°	173	152	137	158	167	175
75°	98	88	74	103	112	105
85°	38	36	34	44	48	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	977.3	977.3	977.3	977.3	977.3
2.5°	977.8	975.3	974.3	978.3	980.8
5°	973.8	971.8	972.3	975.8	978.3
7.5°	966.9	965.4	965.4	970.3	972.8
10°	956.9	956.4	956.4	962.4	965.9
12.5°	943.0	943.5	945.5	953.5	959.4
15°	926.6	927.6	931.6	943.0	948.0
17.5°	908.8	908.8	916.7	925.6	931.6
20°	885.9	887.4	896.4	906.3	912.2
22.5°	862.6	865.1	872.5	883.9	889.4
25°	836.3	839.2	845.7	856.6	861.1
27.5°	805.5	809.4	816.4	824.3	833.8
30°	770.2	776.2	780.6	791.6	802.0
32.5°	734.5	739.9	744.9	756.3	768.2
35°	692.7	698.7	700.7	717.6	729.0
37.5°	650.0	652.5	653.5	670.4	682.8
40°	598.9	603.9	605.3	618.8	626.7
42.5°	549.7	551.7	554.7	564.6	574.1
45°	496.6	499.1	505.5	508.5	513.5
47.5°	441.0	448.4	455.9	446.4	446.9
50°	390.3	396.3	404.2	386.3	386.3
52.5°	345.1	348.1	348.6	333.7	336.7
55°	303.9	296.5	296.0	286.0	292.0
57.5°	262.7	252.8	249.3	246.3	253.3
60°	229.4	211.5	206.6	211.1	220.5
62.5°	202.1	179.3	169.8	181.3	189.7
65°	173.3	152.5	137.1	158.4	167.4
67.5°	151.0	131.1	111.2	141.5	148.0
70°	130.1	114.7	91.9	128.6	133.6
72.5°	113.2	101.3	79.5	116.2	122.2
75°	98.3	88.4	73.5	102.8	112.2
77.5°	86.4	75.5	68.5	88.9	100.3
80°	73.0	62.1	62.1	74.5	84.9
82.5°	57.6	48.7	50.2	60.6	68.0
85°	38.2	35.8	33.8	44.2	48.2
87.5°	19.4	19.9	17.9	22.8	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)