

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: P292360

Luminaire Tested: **22GR-LD5-20-A125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292360  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-20-A125-UNV-L82765-W2A1-U-4500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2102.0 lumens  
Efficiency: N/A  
Efficacy: 133.7 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

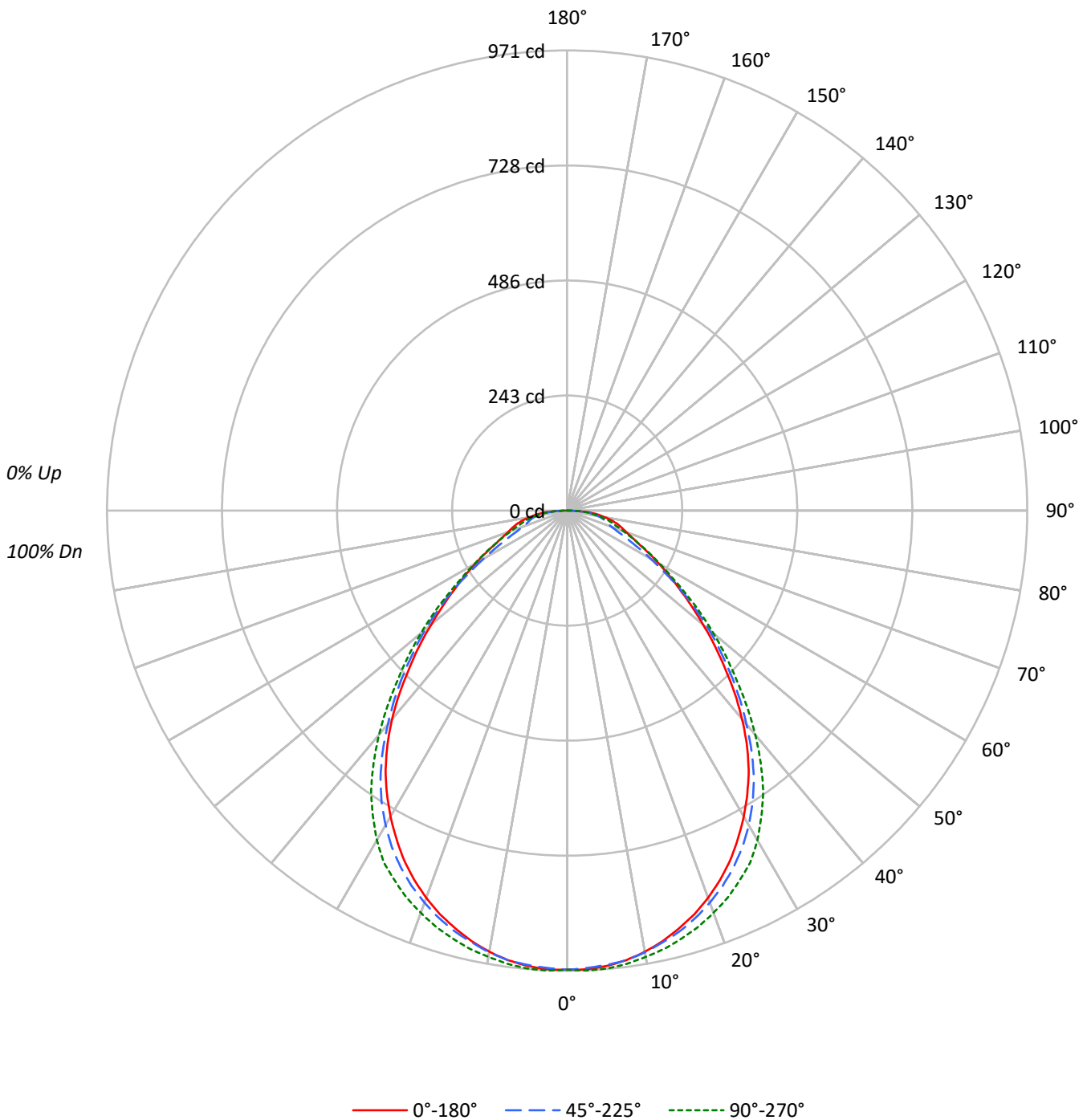
Input Watts (W): 15.717  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86					86			
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74					74			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49					49			
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29					29			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2607	2607	2607
5°	2605	2599	2620
10°	2583	2586	2613
15°	2542	2560	2604
20°	2490	2522	2586
25°	2417	2466	2557
30°	2316	2382	2496
35°	2194	2256	2370
40°	2018	2068	2171
45°	1792	1858	1925
50°	1565	1637	1687
55°	1361	1380	1430
60°	1197	1097	1221
65°	1064	877	1070
70°	1045	779	987
75°	1142	856	1009
80°	1254	1018	1079
85°	1497	1179	1210



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.6	4.4
10°-20°	259.7	12.4
20°-30°	383.4	18.2
30°-40°	429.0	20.4
40°-50°	376.7	17.9
50°-60°	266.6	12.7
60°-70°	155.2	7.4
70°-80°	96.7	4.6
80°-90°	43.3	2.1
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°	734.6	34.9
0°-40°	1163.6	55.4
0°-60°	1806.9	86.0
0°-90°	2102.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2102.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	969	969	969	969	969	
5°	964	962	962	967	970	91
15°	913	914	919	929	935	257
25°	814	818	831	850	861	374
35°	668	671	687	707	721	415
45°	471	476	488	500	506	364
55°	290	296	294	299	305	262
65°	167	154	138	150	168	169
75°	110	95	82	84	97	115
85°	48	50	38	37	39	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	968.9	968.9	968.9	968.9	968.9
2.5°	968.9	967.0	966.0	969.4	971.4
5°	964.5	962.1	962.1	967.0	969.9
7.5°	956.7	954.2	957.2	961.6	964.5
10°	945.4	944.4	946.4	952.3	956.2
12.5°	930.7	931.2	933.1	942.5	947.4
15°	912.6	914.5	918.9	928.7	934.6
17.5°	893.0	894.4	901.3	912.6	920.9
20°	869.4	872.4	880.7	894.9	903.2
22.5°	843.5	846.9	857.2	874.3	884.6
25°	814.0	817.5	830.7	850.3	861.1
27.5°	780.7	786.1	800.8	822.4	837.1
30°	745.4	749.8	766.5	791.0	803.3
32.5°	707.7	713.1	728.8	752.3	763.1
35°	668.0	670.9	686.6	707.2	721.4
37.5°	622.9	624.4	639.1	658.2	670.9
40°	574.4	575.4	588.6	606.7	618.0
42.5°	523.9	524.4	538.6	552.3	562.1
45°	471.0	476.4	488.1	499.9	505.8
47.5°	423.4	427.4	438.1	448.4	453.8
50°	373.9	383.7	391.1	396.5	402.9
52.5°	331.3	339.6	341.6	348.0	353.4
55°	290.1	296.0	294.1	299.4	304.8
57.5°	255.3	252.4	246.0	255.3	262.2
60°	222.5	214.7	203.9	216.6	226.9
62.5°	193.1	180.4	167.1	179.9	197.0
65°	167.1	153.9	137.7	150.0	168.1
67.5°	147.5	133.8	114.7	126.9	145.1
70°	132.8	118.6	99.0	109.3	125.5
72.5°	121.1	105.9	88.7	95.6	109.3
75°	109.8	94.6	82.3	84.3	97.0
77.5°	96.5	85.3	75.5	74.5	84.3
80°	80.9	77.4	65.7	64.2	69.6
82.5°	66.7	65.2	53.9	52.4	54.4
85°	48.5	50.5	38.2	37.2	39.2
87.5°	25.5	27.9	20.1	21.1	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)