

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: P292175

Luminaire Tested: **22GR-LD5-24-A-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292175  
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-LD5-24-A-UNV-L82765-W2A1-U-5500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER WITH A LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2530.0 lumens  
Efficiency: N/A  
Efficacy: 136.0 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

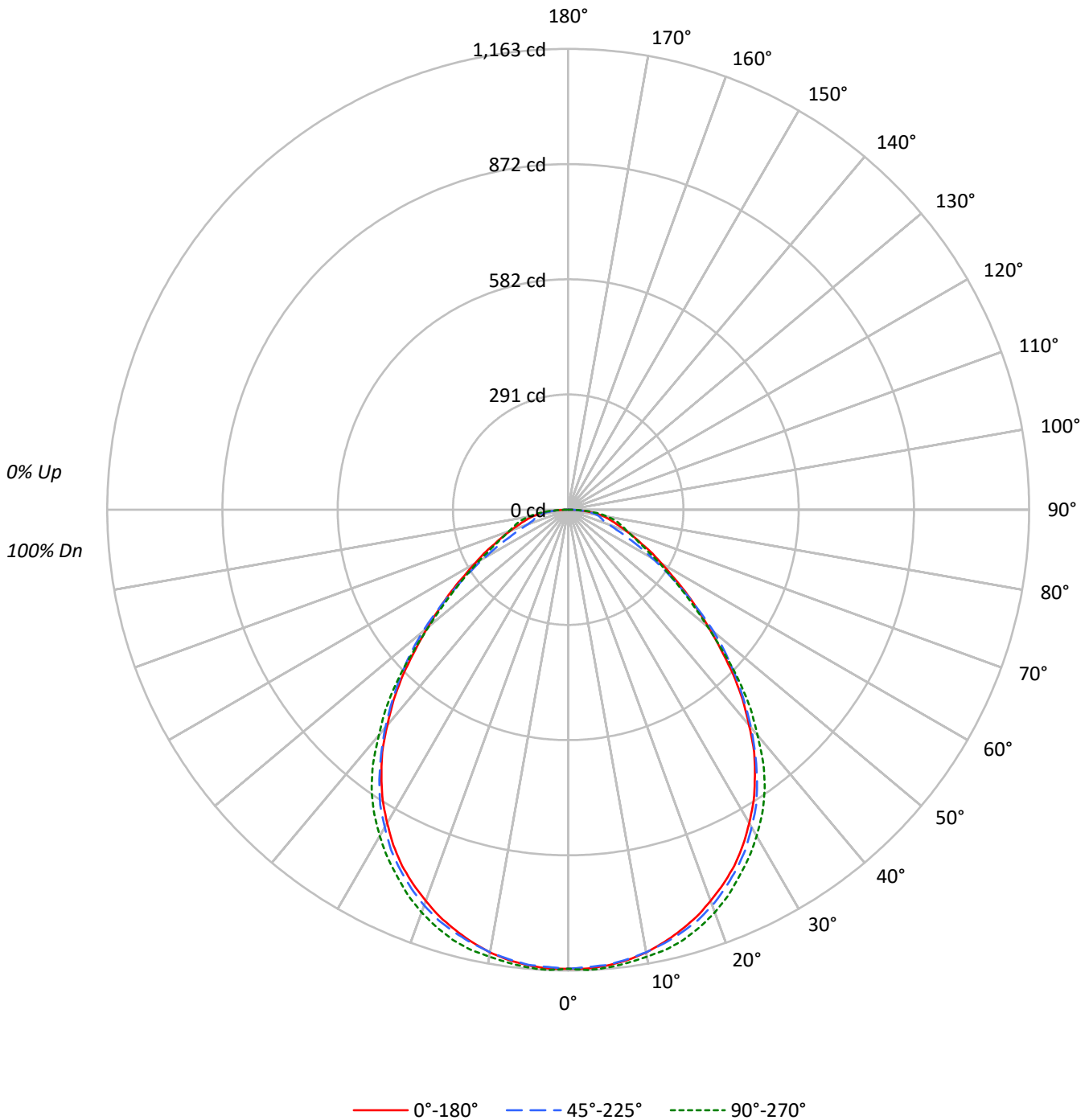
Input Watts (W): 18.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3118	3118	3118
5°	3119	3114	3133
10°	3100	3098	3129
15°	3061	3077	3131
20°	3008	3043	3097
25°	2944	2977	3031
30°	2837	2876	2954
35°	2698	2729	2839
40°	2494	2521	2610
45°	2240	2281	2317
50°	1937	2006	1917
55°	1690	1646	1624
60°	1464	1318	1407
65°	1309	1035	1263
70°	1214	857	1246
75°	1212	906	1384
80°	1340	1141	1561
85°	1399	1235	1763



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.6	4.3
10°-20°	312.3	12.3
20°-30°	461.9	18.3
30°-40°	521.2	20.6
40°-50°	459.4	18.2
50°-60°	315.2	12.5
60°-70°	186.0	7.4
70°-80°	116.1	4.6
80°-90°	48.4	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°	883.8	34.9
0°-40°	1405.0	55.5
0°-60°	2179.6	86.1
0°-90°	2530.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2530.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1159	1159	1159	1159	1159	
5°	1154	1152	1153	1157	1160	110
15°	1099	1100	1104	1118	1124	310
25°	991	995	1003	1016	1021	455
35°	821	828	831	851	864	512
45°	589	592	599	603	609	452
55°	360	352	351	339	346	323
65°	206	181	162	188	198	207
75°	117	105	87	122	133	125
85°	45	42	40	52	57	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1158.6	1158.6	1158.6	1158.6	<i>1158.6</i>
2.5°	<i>1159.2</i>	<i>1156.3</i>	<i>1155.1</i>	<i>1159.8</i>	<i>1162.8</i>
5°	1154.5	1152.2	1152.8	1156.9	<i>1159.8</i>
7.5°	1146.3	1144.5	1144.5	1150.4	<i>1153.3</i>
10°	1134.5	1133.9	1133.9	1141.0	<i>1145.1</i>
12.5°	1118.0	1118.6	1121.0	1130.4	<i>1137.5</i>
15°	1098.6	1099.8	1104.5	1118.0	<i>1123.9</i>
17.5°	1077.4	1077.4	1086.8	1097.4	<i>1104.5</i>
20°	1050.3	1052.1	1062.7	1074.5	<i>1081.5</i>
22.5°	1022.6	1025.6	1034.4	1048.0	<i>1054.4</i>
25°	991.4	995.0	1002.6	1015.6	<i>1020.9</i>
27.5°	954.9	959.7	967.9	977.3	<i>988.5</i>
30°	913.1	920.2	925.5	938.5	<i>950.8</i>
32.5°	870.8	877.2	883.1	896.7	<i>910.8</i>
35°	821.3	828.4	830.7	850.7	<i>864.3</i>
37.5°	770.7	773.6	774.8	794.8	<i>809.5</i>
40°	710.0	715.9	717.7	733.6	<i>743.0</i>
42.5°	651.7	654.1	657.6	669.4	<i>680.6</i>
45°	588.7	591.7	599.3	602.9	<i>608.8</i>
47.5°	522.8	531.6	540.5	529.3	<i>529.9</i>
50°	462.8	469.8	479.2	458.0	<i>458.0</i>
52.5°	409.2	412.7	413.3	395.6	<i>399.2</i>
55°	360.3	351.5	350.9	339.1	<i>346.2</i>
57.5°	311.4	299.7	295.5	292.0	<i>300.3</i>
60°	272.0	250.8	244.9	250.2	<i>261.4</i>
62.5°	239.6	212.5	201.4	214.9	<i>224.9</i>
65°	205.5	180.7	162.5	187.8	<i>198.4</i>
67.5°	179.0	155.4	131.9	167.8	<i>175.4</i>
70°	154.3	136.0	108.9	152.5	<i>158.4</i>
72.5°	134.2	120.1	94.2	137.8	<i>144.8</i>
75°	116.6	104.8	87.1	121.9	<i>133.1</i>
77.5°	102.4	89.5	81.2	105.4	<i>118.9</i>
80°	86.5	73.6	73.6	88.3	<i>100.7</i>
82.5°	68.3	57.7	59.5	71.8	<i>80.7</i>
85°	45.3	42.4	40.0	52.4	<i>57.1</i>
87.5°	23.0	23.5	21.2	27.1	<i>27.7</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)