

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: P292273

Luminaire Tested: **22GR-LD5-24-A-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292273  
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-L92765-W2A1-U-5500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2283.0 lumens  
Efficiency: N/A  
Efficacy: 122.7 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

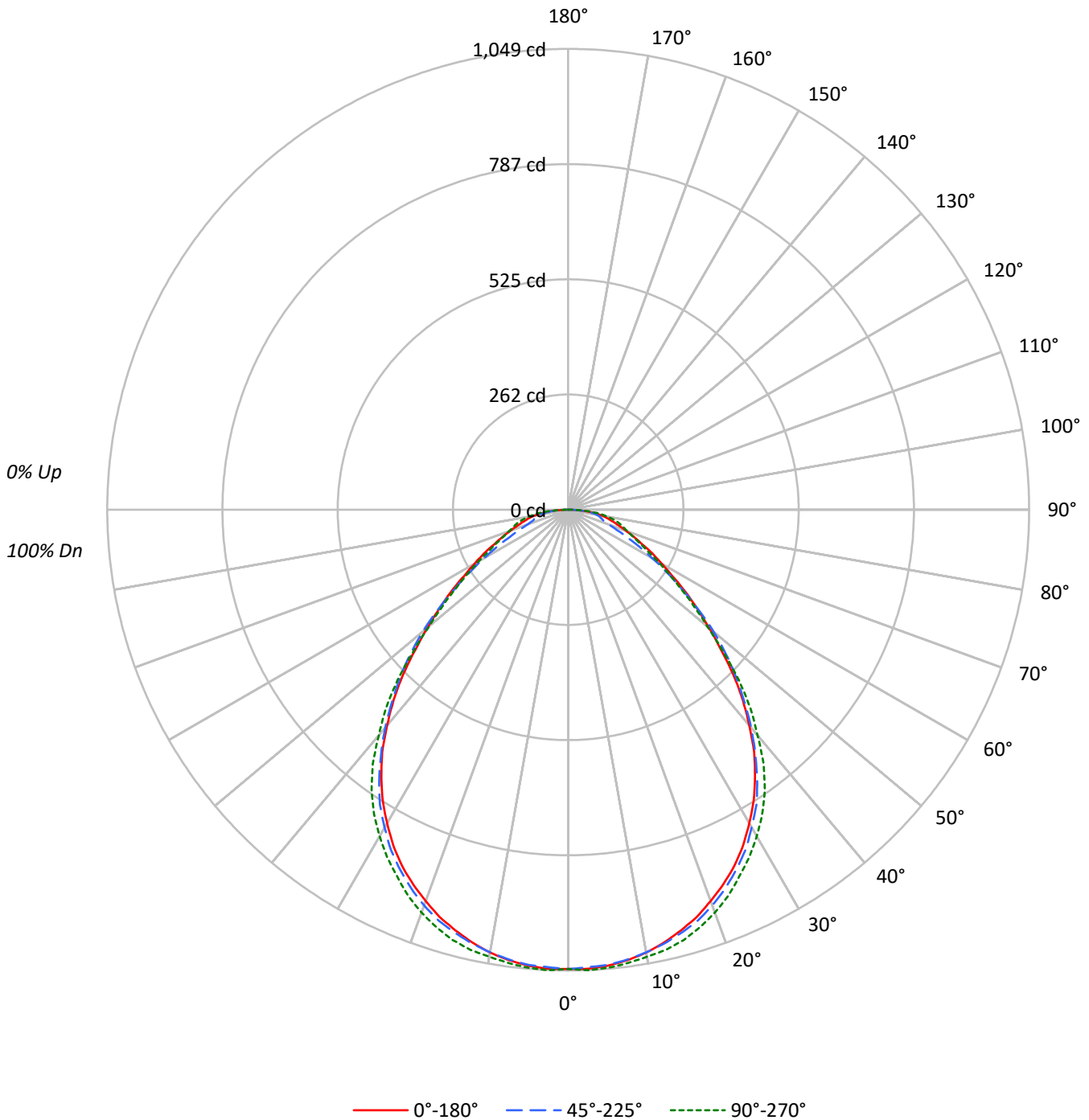
Input Watts (W): 18.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2813	2813	2813
5°	2814	2810	2827
10°	2797	2796	2823
15°	2762	2777	2825
20°	2714	2746	2795
25°	2657	2686	2735
30°	2560	2595	2666
35°	2435	2462	2562
40°	2251	2275	2355
45°	2022	2058	2090
50°	1748	1811	1730
55°	1525	1485	1466
60°	1321	1189	1270
65°	1181	933	1140
70°	1095	773	1124
75°	1094	817	1249
80°	1210	1029	1407
85°	1263	1115	1590



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.9	4.3
10°-20°	281.8	12.3
20°-30°	416.8	18.3
30°-40°	470.3	20.6
40°-50°	414.6	18.2
50°-60°	284.4	12.5
60°-70°	167.8	7.4
70°-80°	104.7	4.6
80°-90°	43.7	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°	797.5	34.9
0°-40°	1267.8	55.5
0°-60°	1966.8	86.1
0°-90°	2283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2283.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1042	1040	1040	1044	1047	99
15°	991	992	997	1009	1014	279
25°	895	898	905	916	921	411
35°	741	748	750	768	780	462
45°	531	534	541	544	549	408
55°	325	317	317	306	312	292
65°	185	163	147	170	179	187
75°	105	95	79	110	120	113
85°	41	38	36	47	52	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1045.5	1045.5	1045.5	1045.5	1045.5
2.5°	1046.1	1043.4	1042.3	1046.6	1049.3
5°	1041.8	1039.7	1040.2	1043.9	1046.6
7.5°	1034.4	1032.8	1032.8	1038.1	1040.8
10°	1023.7	1023.2	1023.2	1029.6	1033.3
12.5°	1008.9	1009.4	1011.5	1020.0	1026.4
15°	991.3	992.4	996.7	1008.9	1014.2
17.5°	972.2	972.2	980.7	990.3	996.7
20°	947.8	949.4	958.9	969.6	975.9
22.5°	922.8	925.5	933.4	945.7	951.5
25°	894.7	897.8	904.7	916.4	921.2
27.5°	861.7	866.0	873.4	881.9	892.0
30°	824.0	830.4	835.2	846.8	858.0
32.5°	785.7	791.6	796.9	809.1	821.9
35°	741.1	747.5	749.6	767.7	779.9
37.5°	695.4	698.1	699.1	717.2	730.5
40°	640.7	646.0	647.6	662.0	670.5
42.5°	588.1	590.2	593.4	604.0	614.1
45°	531.3	533.9	540.8	544.0	549.3
47.5°	471.8	479.7	487.7	477.6	478.1
50°	417.6	424.0	432.5	413.3	413.3
52.5°	369.2	372.4	372.9	357.0	360.2
55°	325.1	317.2	316.6	306.0	312.4
57.5°	281.0	270.4	266.7	263.5	270.9
60°	245.4	226.3	221.0	225.8	235.9
62.5°	216.2	191.8	181.7	193.9	202.9
65°	185.4	163.1	146.6	169.5	179.0
67.5°	161.5	140.3	119.0	151.4	158.3
70°	139.2	122.7	98.3	137.6	142.9
72.5°	121.1	108.4	85.0	124.3	130.7
75°	105.2	94.6	78.6	110.0	120.1
77.5°	92.4	80.8	73.3	95.1	107.3
80°	78.1	66.4	66.4	79.7	90.8
82.5°	61.6	52.1	53.7	64.8	72.8
85°	40.9	38.3	36.1	47.3	51.5
87.5°	20.7	21.3	19.1	24.4	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)