

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: P292174

Luminaire Tested: **22GR-LD5-24-A-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292174
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-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: 2505.0 lumens
Efficiency: N/A
Efficacy: 134.7 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

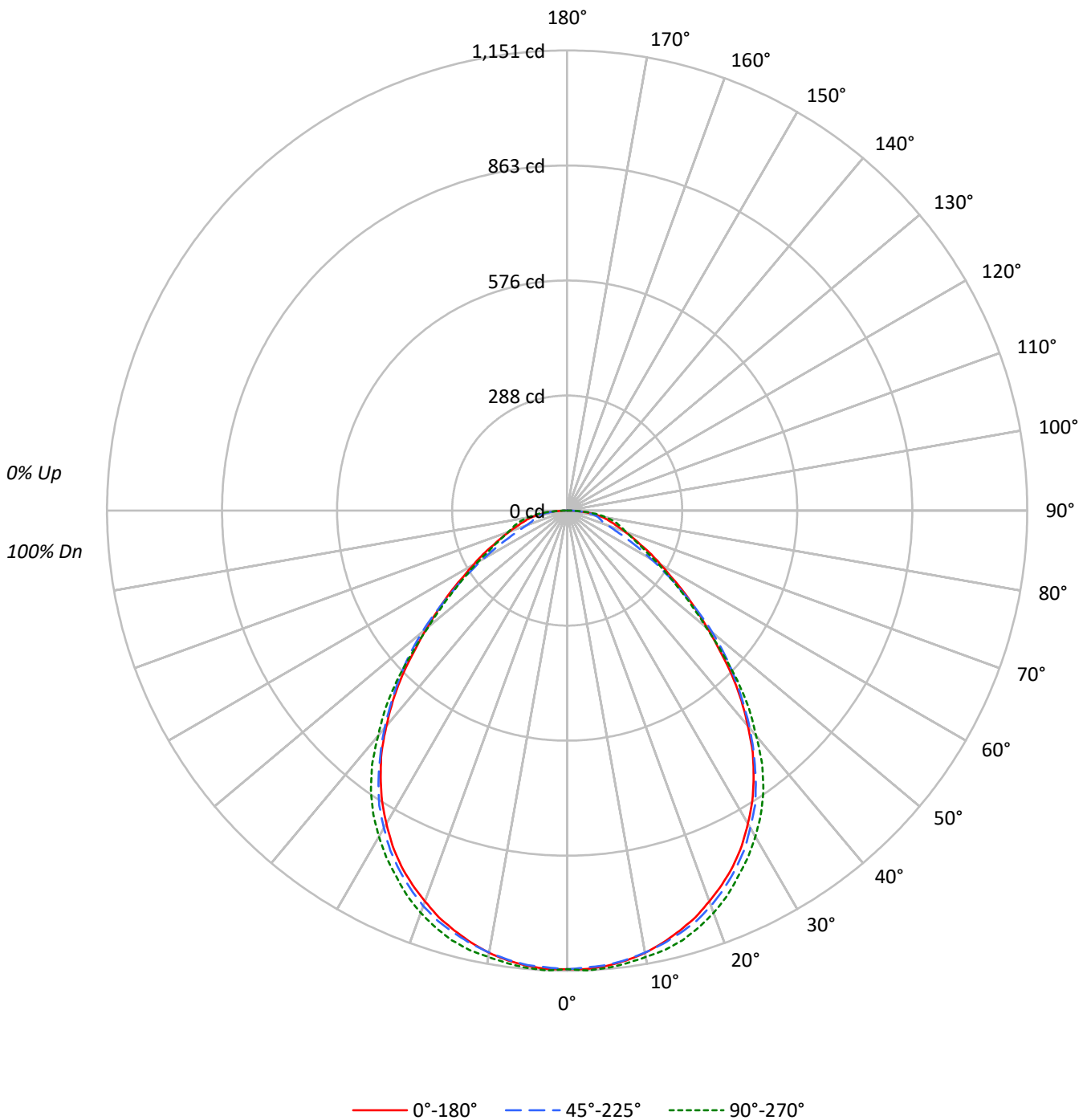
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	62	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	53	46	42	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	35	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	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3087	3087	3087
5°	3088	3083	3102
10°	3069	3068	3098
15°	3030	3047	3100
20°	2978	3013	3066
25°	2915	2947	3001
30°	2809	2848	2925
35°	2671	2702	2811
40°	2470	2496	2584
45°	2218	2258	2294
50°	1918	1986	1899
55°	1674	1630	1608
60°	1449	1305	1393
65°	1295	1025	1251
70°	1201	848	1234
75°	1200	897	1369
80°	1328	1130	1545
85°	1386	1223	1744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	4.3
10°-20°	309.2	12.3
20°-30°	457.3	18.3
30°-40°	516.0	20.6
40°-50°	454.9	18.2
50°-60°	312.1	12.5
60°-70°	184.1	7.4
70°-80°	114.9	4.6
80°-90°	47.9	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°	875.0	34.9
0°-40°	1391.1	55.5
0°-60°	2158.0	86.1
0°-90°	2505.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2505.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1147	1147	1147	1147	1147	
5°	1143	1141	1141	1146	1148	108
15°	1088	1089	1094	1107	1113	307
25°	982	985	993	1006	1011	451
35°	813	820	822	842	856	507
45°	583	586	593	597	603	448
55°	357	348	347	336	343	320
65°	203	179	161	186	196	205
75°	115	104	86	121	132	124
85°	45	42	40	52	56	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1147.2	1147.2	1147.2	1147.2	1147.2
2.5°	1147.8	1144.9	1143.7	1148.4	1151.3
5°	1143.1	1140.8	1141.4	1145.5	1148.4
7.5°	1135.0	1133.2	1133.2	1139.0	1142.0
10°	1123.3	1122.7	1122.7	1129.7	1133.8
12.5°	1107.0	1107.6	1109.9	1119.2	1126.2
15°	1087.7	1088.9	1093.6	1107.0	1112.8
17.5°	1066.8	1066.8	1076.1	1086.6	1093.6
20°	1039.9	1041.7	1052.2	1063.8	1070.8
22.5°	1012.5	1015.5	1024.2	1037.6	1044.0
25°	981.6	985.1	992.7	1005.5	1010.8
27.5°	945.5	950.2	958.3	967.7	978.7
30°	904.1	911.1	916.4	929.2	941.4
32.5°	862.1	868.6	874.4	887.8	901.8
35°	813.2	820.2	822.5	842.3	855.7
37.5°	763.1	766.0	767.1	787.0	801.5
40°	703.0	708.8	710.6	726.3	735.7
42.5°	645.3	647.6	651.1	662.8	673.9
45°	582.9	585.8	593.4	596.9	602.7
47.5°	517.6	526.4	535.1	524.1	524.6
50°	458.2	465.2	474.5	453.5	453.5
52.5°	405.1	408.6	409.2	391.7	395.2
55°	356.8	348.0	347.4	335.8	342.8
57.5°	308.4	296.7	292.6	289.1	297.3
60°	269.3	248.3	242.5	247.7	258.8
62.5°	237.3	210.4	199.4	212.8	222.7
65°	203.4	179.0	160.9	186.0	196.4
67.5°	177.2	153.9	130.6	166.1	173.7
70°	152.7	134.7	107.8	151.0	156.8
72.5°	132.9	118.9	93.3	136.4	143.4
75°	115.4	103.8	86.3	120.7	131.7
77.5°	101.4	88.6	80.4	104.3	117.8
80°	85.7	72.9	72.9	87.4	99.7
82.5°	67.6	57.1	58.9	71.1	79.9
85°	44.9	42.0	39.6	51.9	56.5
87.5°	22.7	23.3	21.0	26.8	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)