

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: P291875

Luminaire Tested: **22GR-LD5-24-F1-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-24-F1-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1912.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

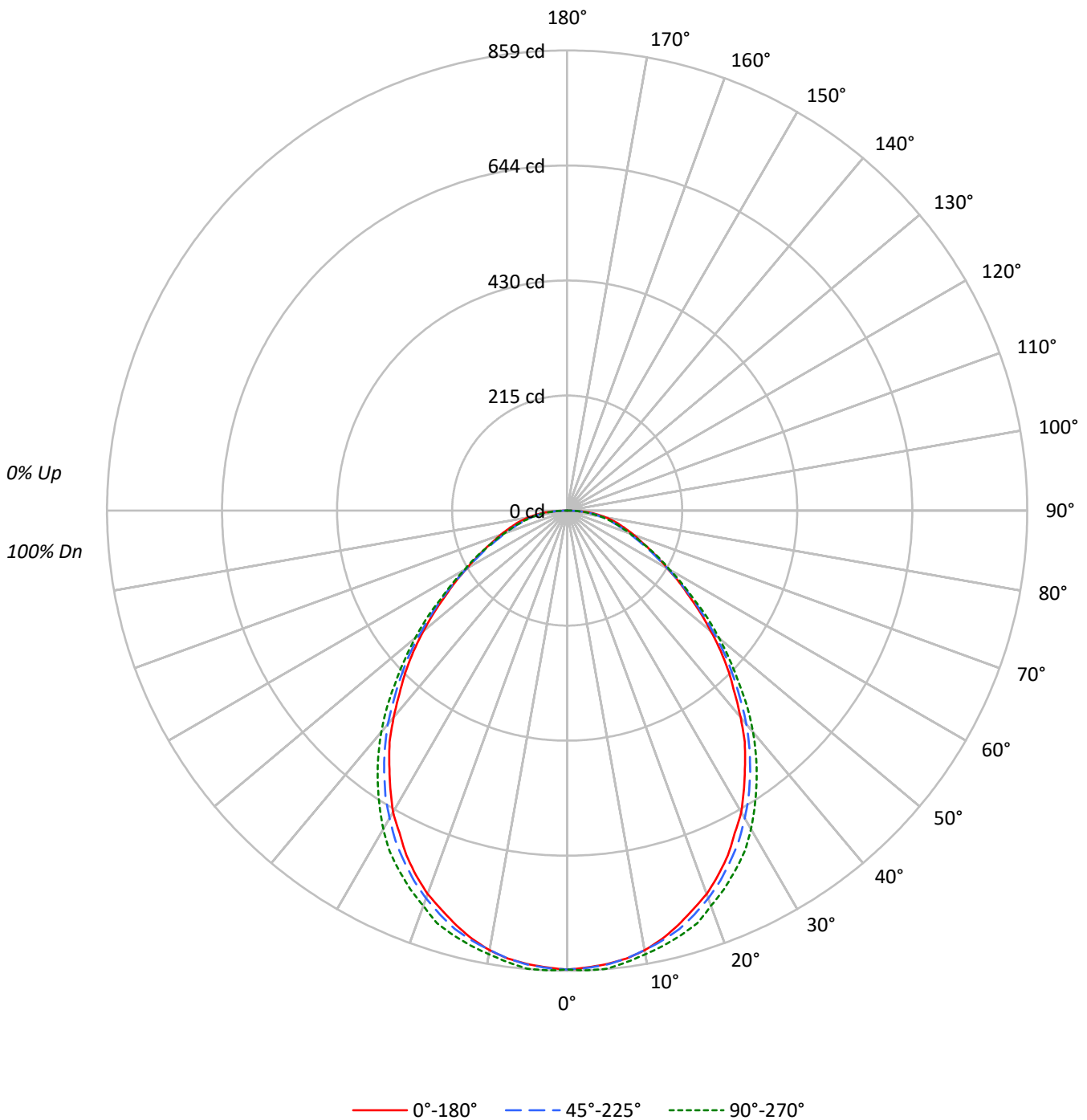
Input Watts (W): 18.135
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38					38			
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34					34			
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	30	42	35	30	41	35	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2306	2306	2306
5°	2296	2298	2319
10°	2278	2276	2298
15°	2232	2254	2287
20°	2181	2206	2249
25°	2108	2142	2202
30°	2020	2060	2133
35°	1901	1956	2026
40°	1769	1829	1896
45°	1625	1671	1723
50°	1465	1502	1550
55°	1300	1331	1354
60°	1165	1167	1191
65°	1074	1037	1074
70°	1036	961	988
75°	1054	941	959
80°	1136	987	987
85°	1260	1044	1031



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	4.2
10°-20°	228.0	11.9
20°-30°	332.7	17.4
30°-40°	372.5	19.5
40°-50°	339.0	17.7
50°-60°	255.2	13.3
60°-70°	166.5	8.7
70°-80°	99.9	5.2
80°-90°	37.4	2.0
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°	641.5	33.6
0°-40°	1014.0	53.0
0°-60°	1608.2	84.1
0°-90°	1912.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1912.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	850	848	851	854	859	81
15°	801	802	809	816	821	226
25°	710	712	722	735	742	326
35°	579	584	596	610	617	362
45°	427	431	439	448	453	329
55°	277	281	284	288	288	250
65°	169	167	163	166	169	169
75°	101	98	90	91	92	108
85°	41	40	34	32	33	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	856.8	856.8	856.8	856.8	856.8
2.5°	853.7	853.3	854.6	856.8	859.0
5°	849.8	848.5	850.7	853.7	858.6
7.5°	843.6	843.6	843.6	849.3	850.2
10°	833.5	834.4	833.1	838.8	841.0
12.5°	819.0	819.5	822.1	827.8	831.8
15°	801.0	801.9	808.9	815.5	820.8
17.5°	780.8	783.9	790.5	801.0	807.6
20°	761.5	765.0	770.3	781.7	785.2
22.5°	736.9	740.9	747.5	757.6	765.0
25°	710.1	712.3	721.5	734.7	741.7
27.5°	678.1	682.9	694.3	707.9	717.6
30°	650.0	652.6	663.1	678.9	686.4
32.5°	614.4	622.3	631.1	645.1	652.2
35°	578.8	584.1	595.5	609.6	616.6
37.5°	544.6	547.6	559.1	570.9	579.7
40°	503.7	509.4	520.8	533.6	539.7
42.5°	462.9	471.2	478.7	491.4	498.0
45°	426.9	431.3	439.2	448.4	452.8
47.5°	389.1	391.3	400.5	406.2	411.1
50°	350.0	352.6	358.8	364.5	370.2
52.5°	314.0	316.2	320.2	325.4	331.1
55°	277.1	281.1	283.7	287.7	288.5
57.5°	247.2	246.8	248.6	251.6	254.7
60°	216.5	217.4	216.9	220.0	221.3
62.5°	191.0	190.6	188.0	192.4	195.9
65°	168.6	166.9	162.9	165.6	168.6
67.5°	148.0	147.1	140.5	142.7	145.4
70°	131.7	128.7	122.1	123.4	125.6
72.5°	115.9	112.4	105.8	106.3	107.6
75°	101.4	97.9	90.5	90.9	92.2
77.5°	87.8	83.4	76.9	76.0	76.9
80°	73.3	69.4	63.7	61.0	63.7
82.5°	58.4	56.2	49.6	47.0	47.9
85°	40.8	39.5	33.8	32.1	33.4
87.5°	18.9	20.2	17.1	15.8	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)