

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: P291876

Luminaire Tested: **22GR-LD5-24-F1-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291876
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-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1988.0 lumens
Efficiency: N/A
Efficacy: 110.8 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

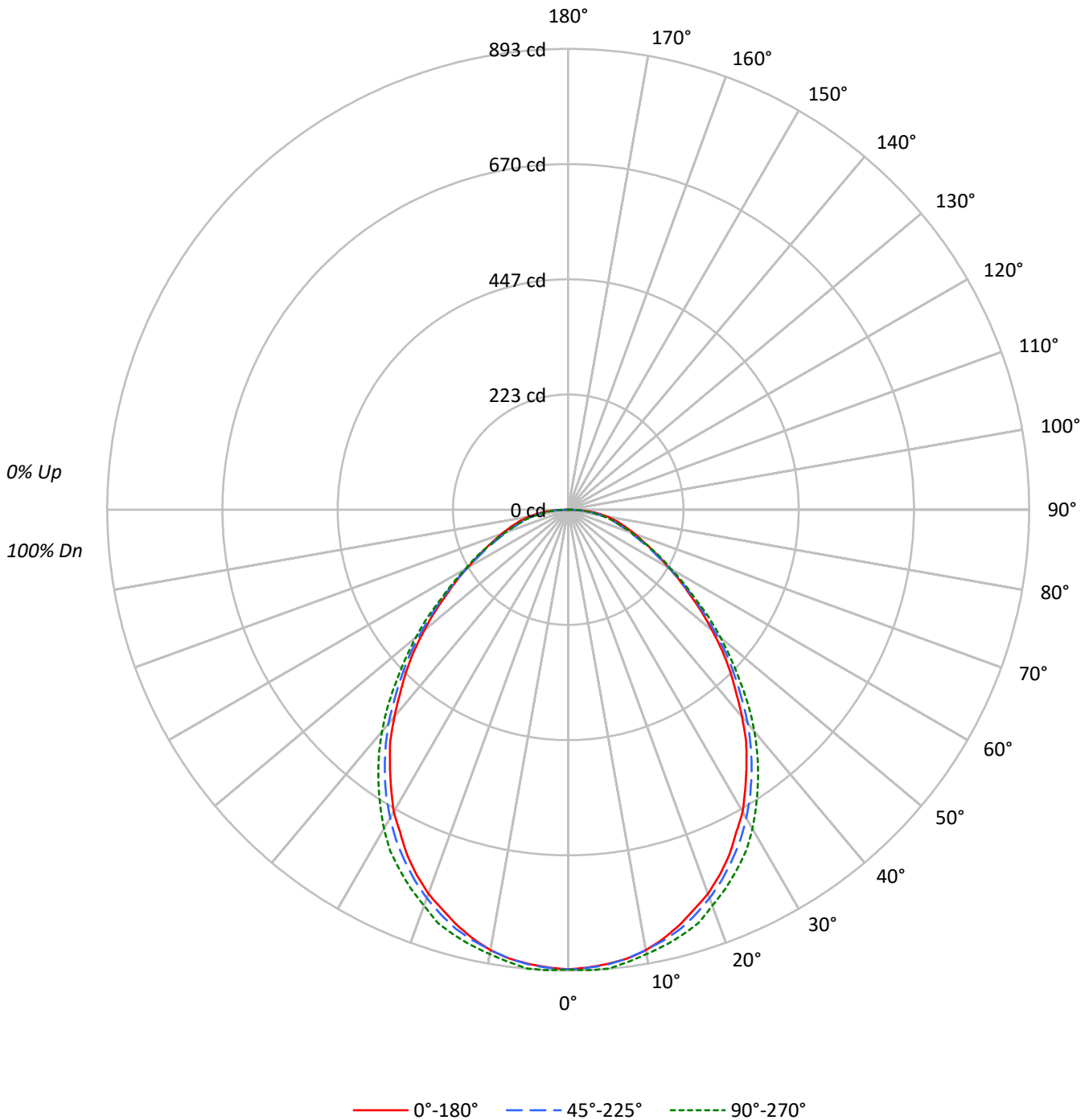
Input Watts (W): 17.949
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2397	2397	2397
5°	2387	2389	2411
10°	2368	2367	2389
15°	2320	2343	2377
20°	2267	2294	2338
25°	2192	2227	2290
30°	2100	2142	2218
35°	1977	2034	2106
40°	1840	1903	1971
45°	1689	1738	1792
50°	1523	1562	1611
55°	1352	1384	1407
60°	1211	1214	1238
65°	1116	1079	1116
70°	1078	998	1028
75°	1097	978	997
80°	1182	1026	1026
85°	1312	1087	1071



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	4.2
10°-20°	237.0	11.9
20°-30°	345.9	17.4
30°-40°	387.3	19.5
40°-50°	352.5	17.7
50°-60°	265.3	13.3
60°-70°	173.1	8.7
70°-80°	103.8	5.2
80°-90°	38.9	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°	667.0	33.6
0°-40°	1054.3	53.0
0°-60°	1672.1	84.1
0°-90°	1988.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1988.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	891	891	891	891	891	
5°	884	882	884	888	893	84
15°	833	834	841	848	853	235
25°	738	741	750	764	771	339
35°	602	607	619	634	641	376
45°	444	448	457	466	471	342
55°	288	292	295	299	300	260
65°	175	174	169	172	175	175
75°	106	102	94	94	96	112
85°	42	41	35	33	35	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	890.9	890.9	890.9	890.9	890.9
2.5°	887.7	887.2	888.6	890.9	893.1
5°	883.6	882.2	884.5	887.7	892.7
7.5°	877.2	877.2	877.2	883.1	884.0
10°	866.7	867.6	866.2	872.1	874.4
12.5°	851.6	852.1	854.8	860.7	864.8
15°	832.9	833.8	841.1	847.9	853.4
17.5°	811.9	815.1	821.9	832.9	839.7
20°	791.8	795.4	800.9	812.8	816.4
22.5°	766.2	770.3	777.2	787.7	795.4
25°	738.4	740.6	750.2	763.9	771.2
27.5°	705.0	710.0	721.9	736.1	746.1
30°	675.8	678.5	689.5	705.9	713.7
32.5°	638.8	647.0	656.2	670.8	678.1
35°	601.8	607.3	619.2	633.8	641.1
37.5°	566.2	569.4	581.3	593.6	602.7
40°	523.7	529.7	541.6	554.8	561.2
42.5°	481.3	490.0	497.7	511.0	517.8
45°	443.8	448.4	456.6	466.2	470.8
47.5°	404.6	406.8	416.4	422.4	427.4
50°	363.9	366.7	373.1	379.0	384.9
52.5°	326.5	328.8	332.9	338.4	344.3
55°	288.1	292.2	295.0	299.1	300.0
57.5°	257.1	256.6	258.4	261.6	264.8
60°	225.1	226.0	225.6	228.8	230.1
62.5°	198.6	198.2	195.4	200.0	203.7
65°	175.3	173.5	169.4	172.1	175.3
67.5°	153.9	153.0	146.1	148.4	151.1
70°	137.0	133.8	126.9	128.3	130.6
72.5°	120.5	116.9	110.0	110.5	111.9
75°	105.5	101.8	94.1	94.5	95.9
77.5°	91.3	86.8	79.9	79.0	79.9
80°	76.3	72.1	66.2	63.5	66.2
82.5°	60.7	58.4	51.6	48.9	49.8
85°	42.5	41.1	35.2	33.3	34.7
87.5°	19.6	21.0	17.8	16.4	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)