

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: P291894

Luminaire Tested: **22GR-LD5-32-F1-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291894
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-LD5-32-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: 2626.0 lumens
Efficiency: N/A
Efficacy: 107.8 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

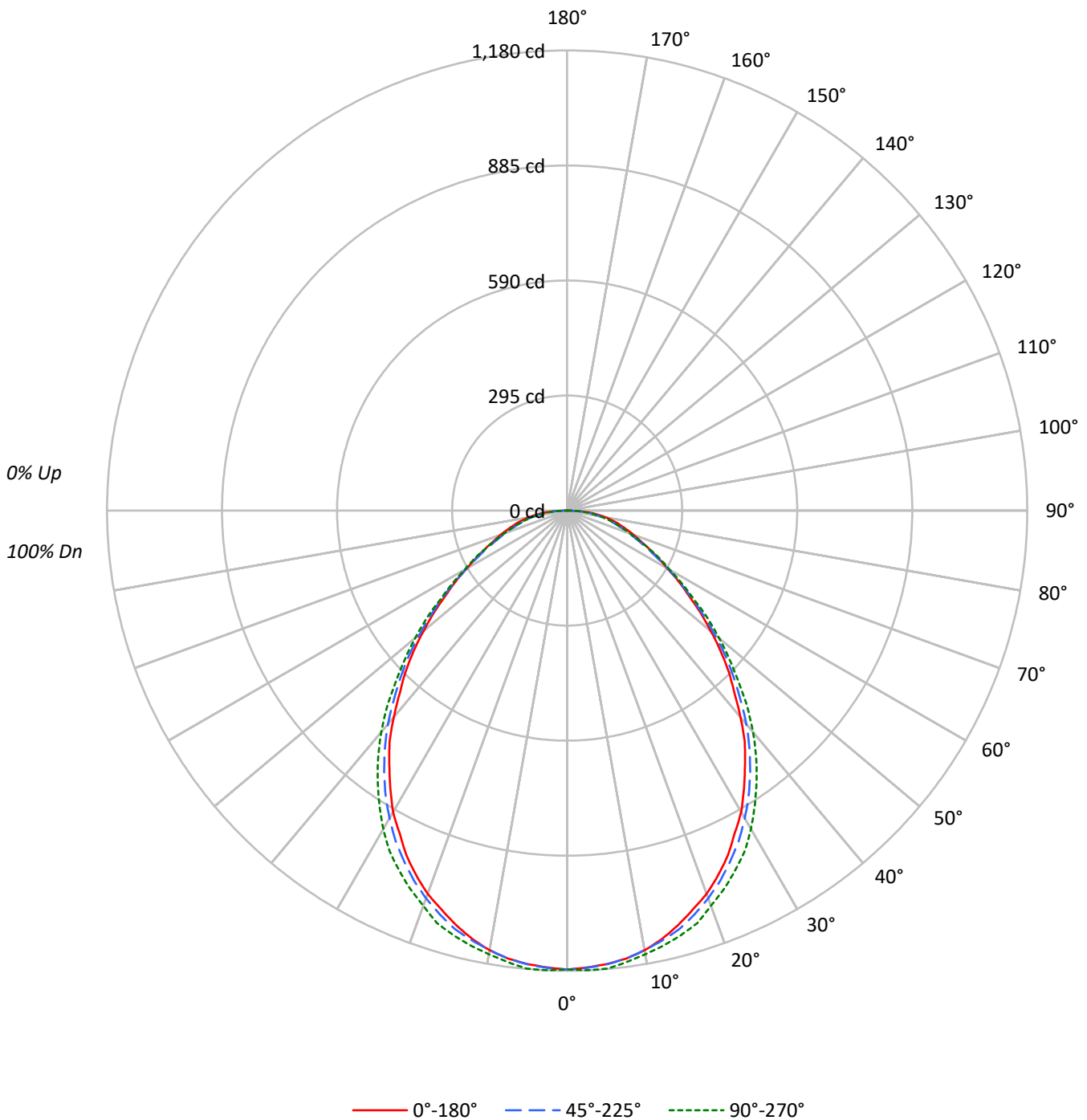
Input Watts (W): 24.366
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3167	3167	3167
5°	3153	3156	3185
10°	3128	3127	3156
15°	3065	3095	3141
20°	2995	3029	3088
25°	2896	2942	3025
30°	2774	2830	2929
35°	2612	2687	2782
40°	2430	2513	2604
45°	2231	2296	2367
50°	2012	2063	2129
55°	1786	1828	1859
60°	1601	1604	1636
65°	1475	1425	1475
70°	1423	1319	1357
75°	1448	1292	1317
80°	1561	1356	1356
85°	1732	1433	1414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	4.2
10°-20°	313.1	11.9
20°-30°	457.0	17.4
30°-40°	511.6	19.5
40°-50°	465.6	17.7
50°-60°	350.4	13.3
60°-70°	228.7	8.7
70°-80°	137.2	5.2
80°-90°	51.4	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°	881.1	33.6
0°-40°	1392.7	53.0
0°-60°	2208.7	84.1
0°-90°	2626.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2626.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1177	1177	1177	1177	1177	
5°	1167	1165	1168	1172	1179	111
15°	1100	1101	1111	1120	1127	310
25°	975	978	991	1009	1019	448
35°	795	802	818	837	847	497
45°	586	592	603	616	622	451
55°	381	386	390	395	396	344
65°	232	229	224	227	232	232
75°	139	134	124	125	127	148
85°	56	54	46	44	46	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1176.8	1176.8	1176.8	1176.8	1176.8
2.5°	1172.5	1171.9	1173.8	1176.8	1179.8
5°	1167.1	1165.3	1168.3	1172.5	1179.2
7.5°	1158.7	1158.7	1158.7	1166.5	1167.7
10°	1144.8	1146.0	1144.2	1152.0	1155.1
12.5°	1124.9	1125.5	1129.1	1137.0	1142.4
15°	1100.2	1101.4	1111.0	1120.1	1127.3
17.5°	1072.4	1076.6	1085.7	1100.2	1109.2
20°	1045.9	1050.7	1057.9	1073.6	1078.5
22.5°	1012.1	1017.5	1026.6	1040.5	1050.7
25°	975.3	978.3	991.0	1009.1	1018.7
27.5°	931.3	937.9	953.6	972.3	985.6
30°	892.7	896.3	910.8	932.5	942.7
32.5°	843.8	854.7	866.7	886.0	895.7
35°	795.0	802.2	817.9	837.2	846.8
37.5°	747.9	752.1	767.8	784.1	796.2
40°	691.8	699.7	715.3	732.8	741.3
42.5°	635.7	647.2	657.4	674.9	684.0
45°	586.3	592.3	603.2	615.8	621.9
47.5°	534.4	537.4	550.1	557.9	564.6
50°	480.7	484.3	492.8	500.6	508.5
52.5°	431.3	434.3	439.7	446.9	454.8
55°	380.6	386.0	389.6	395.1	396.3
57.5°	339.6	339.0	341.4	345.6	349.8
60°	297.4	298.6	298.0	302.2	304.0
62.5°	262.4	261.8	258.2	264.2	269.0
65°	231.6	229.2	223.8	227.4	231.6
67.5°	203.3	202.1	193.0	196.0	199.6
70°	180.9	176.7	167.7	169.5	172.5
72.5°	159.2	154.4	145.4	146.0	147.8
75°	139.3	134.5	124.3	124.9	126.7
77.5°	120.6	114.6	105.6	104.3	105.6
80°	100.7	95.3	87.5	83.8	87.5
82.5°	80.2	77.2	68.2	64.5	65.7
85°	56.1	54.3	46.4	44.0	45.8
87.5°	25.9	27.7	23.5	21.7	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)