

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: P291769

Luminaire Tested: **22GR-LD5-20-F1-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291769
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-LD5-20-F1-UNV-L82765-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1963.0 lumens
Efficiency: N/A
Efficacy: 127.9 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

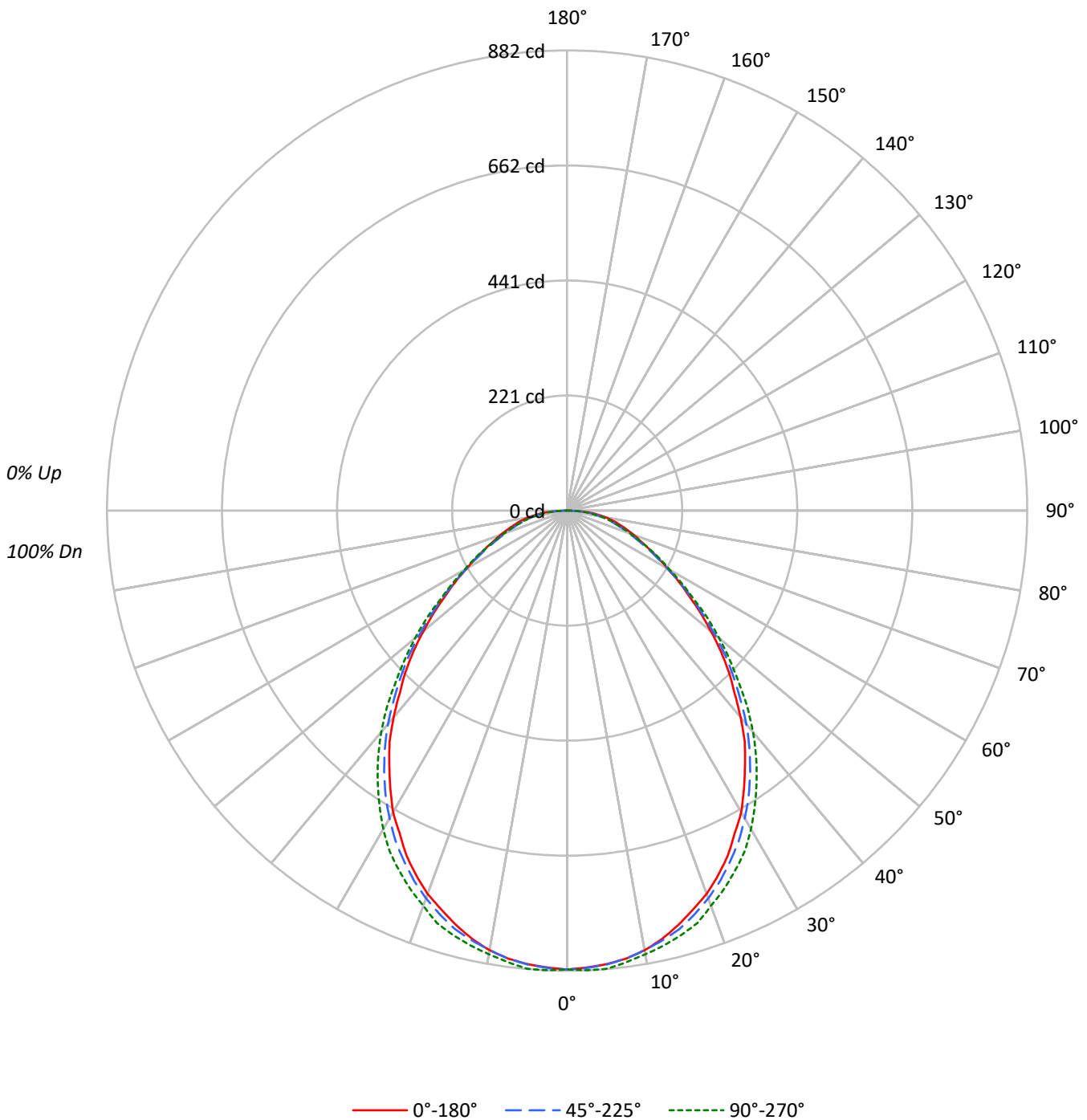
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85																												
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73																												
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63																												
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55																												
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48																												
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	43																												
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38																												
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34																												
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31																												
10	56	43	36	31	55	43	35	30	42	35	30	41	35	30	40	34	30	28																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2367	2367	2367
5°	2357	2359	2381
10°	2338	2337	2359
15°	2291	2314	2348
20°	2239	2265	2309
25°	2165	2200	2261
30°	2073	2115	2190
35°	1952	2008	2079
40°	1817	1878	1946
45°	1668	1716	1769
50°	1504	1542	1591
55°	1335	1367	1390
60°	1196	1199	1223
65°	1102	1065	1102
70°	1065	986	1015
75°	1083	966	985
80°	1167	1013	1013
85°	1294	1071	1059



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	4.2
10°-20°	234.0	11.9
20°-30°	341.6	17.4
30°-40°	382.4	19.5
40°-50°	348.1	17.7
50°-60°	262.0	13.3
60°-70°	170.9	8.7
70°-80°	102.5	5.2
80°-90°	38.4	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°	658.6	33.6
0°-40°	1041.0	53.0
0°-60°	1651.1	84.1
0°-90°	1963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1963.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	872	871	873	876	882	83
15°	822	823	830	837	843	232
25°	729	731	741	754	762	335
35°	594	600	611	626	633	371
45°	438	443	451	460	465	337
55°	284	289	291	295	296	257
65°	173	171	167	170	173	173
75°	104	100	93	93	95	111
85°	42	41	35	33	34	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	879.7	879.7	879.7	879.7	879.7
2.5°	876.5	876.1	877.4	879.7	881.9
5°	872.4	871.1	873.4	876.5	881.5
7.5°	866.1	866.1	866.1	872.0	872.9
10°	855.8	856.7	855.3	861.2	863.4
12.5°	840.9	841.3	844.0	849.9	854.0
15°	822.4	823.3	830.5	837.3	842.7
17.5°	801.7	804.8	811.6	822.4	829.2
20°	781.8	785.4	790.8	802.6	806.2
22.5°	756.6	760.6	767.4	777.8	785.4
25°	729.1	731.3	740.8	754.3	761.5
27.5°	696.2	701.1	712.8	726.8	736.7
30°	667.3	670.0	680.8	697.1	704.7
32.5°	630.8	638.9	647.9	662.3	669.6
35°	594.3	599.7	611.4	625.8	633.0
37.5°	559.1	562.2	574.0	586.1	595.2
40°	517.2	523.0	534.7	547.8	554.1
42.5°	475.2	483.8	491.5	504.5	511.3
45°	438.3	442.8	450.9	460.3	464.9
47.5°	399.5	401.7	411.2	417.1	422.0
50°	359.3	362.1	368.4	374.2	380.1
52.5°	322.4	324.6	328.7	334.1	340.0
55°	284.5	288.6	291.3	295.3	296.2
57.5°	253.8	253.4	255.2	258.4	261.5
60°	222.3	223.2	222.7	225.9	227.2
62.5°	196.1	195.7	193.0	197.5	201.1
65°	173.1	171.3	167.3	170.0	173.1
67.5°	151.9	151.0	144.3	146.5	149.2
70°	135.3	132.1	125.3	126.7	129.0
72.5°	119.0	115.4	108.7	109.1	110.5
75°	104.2	100.5	92.9	93.3	94.7
77.5°	90.2	85.7	78.9	78.0	78.9
80°	75.3	71.2	65.4	62.7	65.4
82.5°	60.0	57.7	50.9	48.2	49.1
85°	41.9	40.6	34.7	32.9	34.3
87.5°	19.4	20.7	17.6	16.2	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)