

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: P291883

Luminaire Tested: **22GR-LD5-24-F1-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291883
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-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2316.0 lumens
Efficiency: N/A
Efficacy: 122.1 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

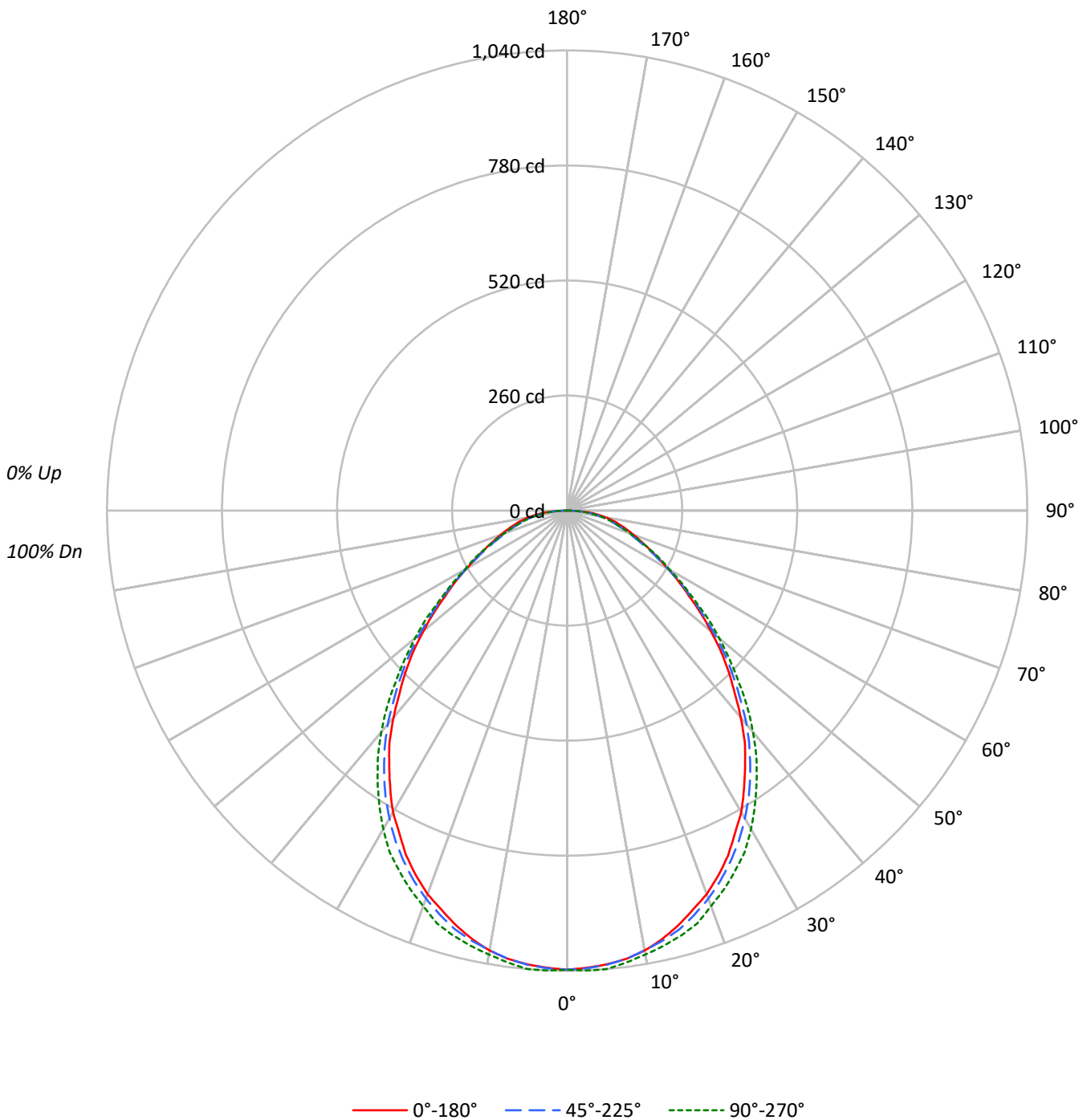
Input Watts (W): 18.972
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2793	2793	2793
5°	2780	2783	2809
10°	2759	2757	2784
15°	2703	2730	2770
20°	2641	2672	2724
25°	2554	2595	2668
30°	2446	2496	2583
35°	2303	2370	2454
40°	2144	2216	2297
45°	1968	2025	2087
50°	1775	1819	1877
55°	1575	1612	1640
60°	1412	1414	1443
65°	1301	1257	1301
70°	1256	1164	1197
75°	1278	1140	1161
80°	1376	1195	1195
85°	1528	1266	1247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	4.2
10°-20°	276.1	11.9
20°-30°	403.0	17.4
30°-40°	451.2	19.5
40°-50°	410.6	17.7
50°-60°	309.1	13.3
60°-70°	201.7	8.7
70°-80°	121.0	5.2
80°-90°	45.4	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°	777.0	33.6
0°-40°	1228.3	53.0
0°-60°	1948.0	84.1
0°-90°	2316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2316.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1038	1038	1038	1038	1038	
5°	1029	1028	1030	1034	1040	98
15°	970	971	980	988	994	273
25°	860	863	874	890	898	395
35°	701	708	721	738	747	438
45°	517	522	532	543	548	398
55°	336	340	344	348	350	303
65°	204	202	197	200	204	204
75°	123	119	110	110	112	130
85°	50	48	41	39	40	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1037.8	1037.8	1037.8	1037.8	1037.8
2.5°	1034.1	1033.6	1035.2	1037.8	1040.5
5°	1029.3	1027.7	1030.4	1034.1	1040.0
7.5°	1021.9	1021.9	1021.9	1028.8	1029.9
10°	1009.7	1010.7	1009.1	1016.0	1018.7
12.5°	992.1	992.6	995.8	1002.7	1007.5
15°	970.3	971.4	979.9	987.8	994.2
17.5°	945.8	949.5	957.5	970.3	978.3
20°	922.4	926.7	933.1	946.9	951.1
22.5°	892.6	897.4	905.4	917.6	926.7
25°	860.2	862.8	874.0	890.0	898.5
27.5°	821.3	827.2	841.0	857.5	869.2
30°	787.3	790.5	803.3	822.4	831.4
32.5°	744.2	753.8	764.4	781.4	790.0
35°	701.1	707.5	721.3	738.4	746.9
37.5°	659.6	663.4	677.2	691.5	702.2
40°	610.2	617.1	630.9	646.3	653.8
42.5°	560.7	570.8	579.8	595.3	603.2
45°	517.1	522.4	532.0	543.1	548.4
47.5°	471.3	474.0	485.1	492.1	497.9
50°	424.0	427.2	434.6	441.5	448.4
52.5°	380.3	383.0	387.8	394.2	401.1
55°	335.7	340.5	343.6	348.4	349.5
57.5°	299.5	299.0	301.1	304.8	308.5
60°	262.3	263.3	262.8	266.5	268.1
62.5°	231.4	230.9	227.7	233.0	237.3
65°	204.3	202.1	197.4	200.5	204.3
67.5°	179.3	178.2	170.2	172.9	176.1
70°	159.6	155.9	147.9	149.5	152.1
72.5°	140.4	136.2	128.2	128.7	130.3
75°	122.9	118.6	109.6	110.1	111.7
77.5°	106.4	101.1	93.1	92.0	93.1
80°	88.8	84.0	77.1	73.9	77.1
82.5°	70.8	68.1	60.1	56.9	58.0
85°	49.5	47.9	41.0	38.8	40.4
87.5°	22.9	24.5	20.7	19.2	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)