

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: P291818

Luminaire Tested: **22GR-LD5-40-F1-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291818
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-LD5-40-F1-UNV-L82765-W2A1-U-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4199.0 lumens
Efficiency: N/A
Efficacy: 126.8 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

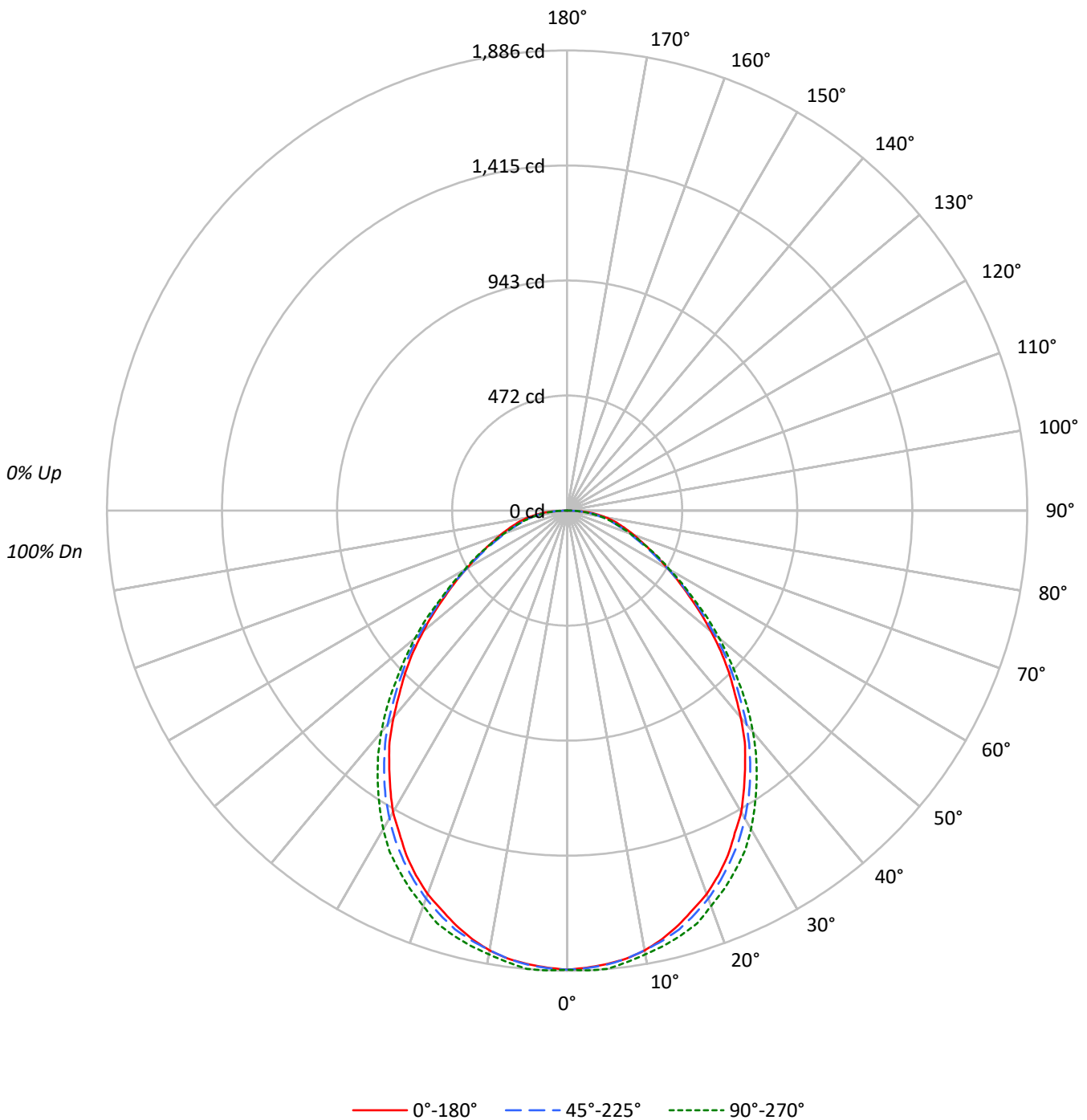
Input Watts (W): 33.108
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5064	5064	5064
5°	5041	5046	5093
10°	5002	4999	5047
15°	4901	4949	5022
20°	4789	4844	4938
25°	4630	4705	4837
30°	4435	4525	4684
35°	4176	4296	4448
40°	3886	4018	4164
45°	3568	3671	3784
50°	3218	3299	3404
55°	2855	2923	2973
60°	2559	2564	2616
65°	2358	2278	2358
70°	2276	2109	2170
75°	2316	2066	2105
80°	2497	2166	2166
85°	2770	2294	2263



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.5	4.2
10°-20°	500.6	11.9
20°-30°	730.7	17.4
30°-40°	818.1	19.5
40°-50°	744.5	17.7
50°-60°	560.4	13.3
60°-70°	365.7	8.7
70°-80°	219.3	5.2
80°-90°	82.3	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°	1408.8	33.6
0°-40°	2226.9	53.0
0°-60°	3531.8	84.1
0°-90°	4199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4199.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1882	1882	1882	1882	1882	
5°	1866	1863	1868	1875	1886	177
15°	1759	1761	1776	1791	1803	495
25°	1560	1564	1585	1614	1629	716
35°	1271	1283	1308	1339	1354	794
45°	938	947	964	985	994	722
55°	609	617	623	632	634	550
65°	370	366	358	364	370	370
75°	223	215	199	200	202	236
85°	90	87	74	70	73	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1881.7	1881.7	1881.7	1881.7	1881.7
2.5°	1874.9	1873.9	1876.8	1881.7	1886.5
5°	1866.2	1863.3	1868.2	1874.9	1885.5
7.5°	1852.7	1852.7	1852.7	1865.3	1867.2
10°	1830.5	1832.5	1829.6	1842.1	1846.9
12.5°	1798.7	1799.7	1805.5	1818.0	1826.7
15°	1759.2	1761.1	1776.5	1791.0	1802.6
17.5°	1714.8	1721.6	1736.0	1759.2	1773.6
20°	1672.4	1680.1	1691.7	1716.7	1724.5
22.5°	1618.4	1627.0	1641.5	1663.7	1680.1
25°	1559.5	1564.4	1584.6	1613.5	1629.0
27.5°	1489.1	1499.7	1524.8	1554.7	1575.9
30°	1427.4	1433.2	1456.3	1491.1	1507.5
32.5°	1349.3	1366.6	1385.9	1416.8	1432.2
35°	1271.2	1282.7	1307.8	1338.7	1354.1
37.5°	1195.9	1202.7	1227.8	1253.8	1273.1
40°	1106.2	1118.8	1143.9	1171.8	1185.3
42.5°	1016.5	1034.9	1051.3	1079.2	1093.7
45°	937.5	947.1	964.5	984.7	994.4
47.5°	854.5	859.3	879.6	892.1	902.7
50°	768.7	774.5	788.0	800.5	813.0
52.5°	689.6	694.4	703.1	714.7	727.2
55°	608.6	617.3	623.0	631.7	633.7
57.5°	543.0	542.0	545.9	552.6	559.4
60°	475.5	477.4	476.4	483.2	486.1
62.5°	419.5	418.6	412.8	422.4	430.1
65°	370.4	366.5	357.8	363.6	370.4
67.5°	325.0	323.1	308.6	313.4	319.2
70°	289.3	282.6	268.1	271.0	275.8
72.5°	254.6	246.9	232.4	233.4	236.3
75°	222.8	215.1	198.7	199.6	202.5
77.5°	192.9	183.2	168.8	166.9	168.8
80°	161.1	152.4	139.8	134.1	139.8
82.5°	128.3	123.5	109.0	103.2	105.1
85°	89.7	86.8	74.3	70.4	73.3
87.5°	41.5	44.4	37.6	34.7	35.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)