

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P798160

Luminaire Tested: 14GRSCT3-F1-UNV-MID-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798160
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2311-232-49)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14GRSCT3-F1-UNV-MID-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

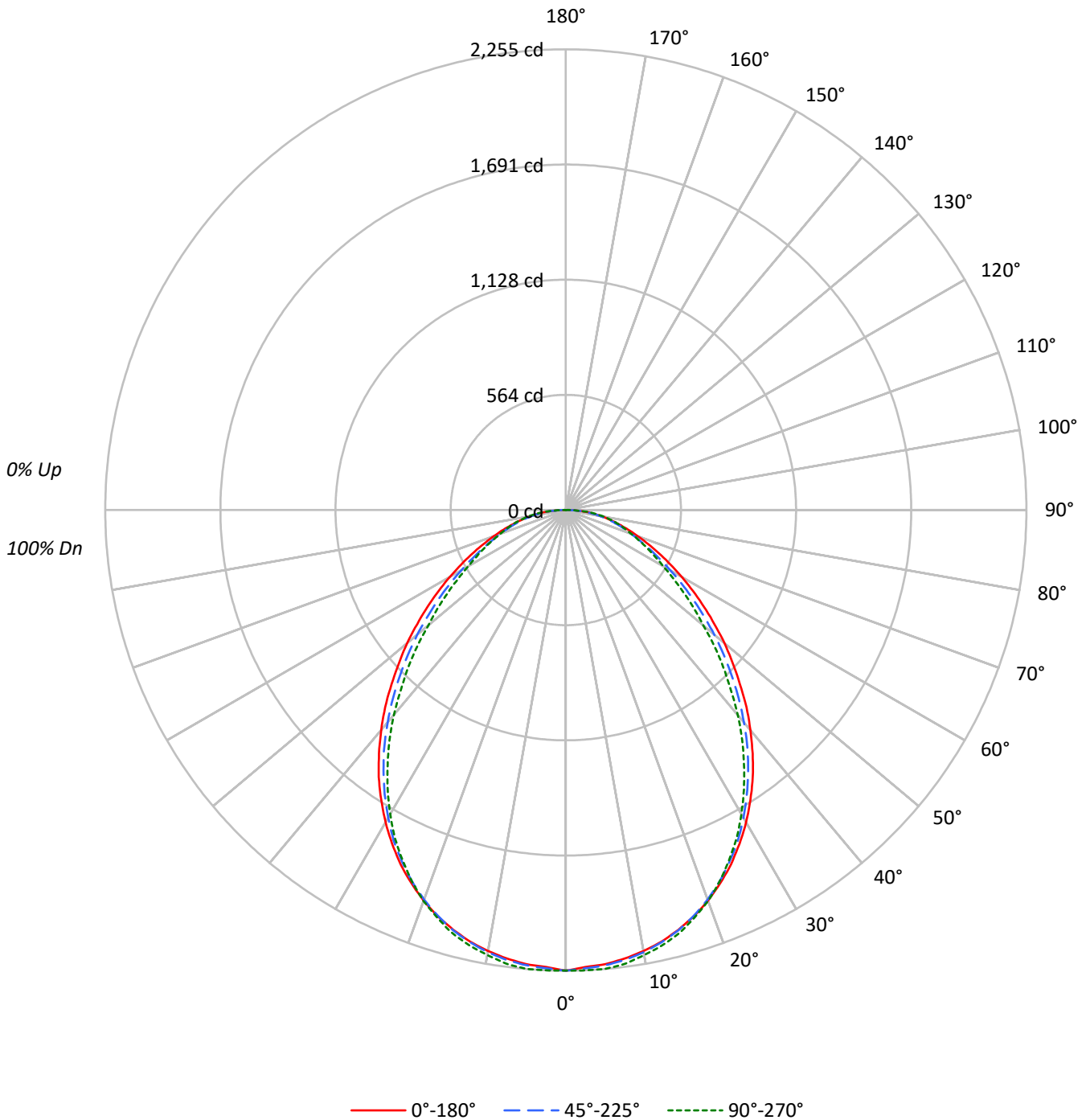
Lumens per Lamp: N/A
Luminaire Lumens: 5072.0 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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: 24 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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	87	87	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	75	73
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64	64	64	64	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	56	56	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	50	50	50	48
6	73	60	52	46	71	59	51	45	57	50	45	56	49	45	54	49	44	44	44	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	40	40	40	38
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	36	36	36	34
9	59	46	39	33	58	46	38	33	45	38	33	44	37	33	43	37	33	33	33	33	31
10	56	43	35	30	54	42	35	30	41	35	30	41	34	30	40	34	30	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6067	6067	6067
5°	6027	6042	6088
10°	5990	6005	6043
15°	5926	5935	5976
20°	5827	5812	5832
25°	5682	5635	5615
30°	5485	5404	5341
35°	5244	5113	4997
40°	4939	4767	4601
45°	4589	4375	4155
50°	4243	3971	3680
55°	3874	3563	3302
60°	3531	3182	2967
65°	3207	2878	2793
70°	2954	2664	2689
75°	2797	2602	2773
80°	2775	2655	2969
85°	2921	2800	3236

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4589 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.9	4.2
10°-20°	601.2	11.9
20°-30°	874.5	17.2
30°-40°	973.1	19.2
40°-50°	888.1	17.5
50°-60°	684.0	13.5
60°-70°	460.9	9.1
70°-80°	275.7	5.4
80°-90°	101.7	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°	1688.6	33.3
0°-40°	2661.7	52.5
0°-60°	4233.7	83.5
0°-90°	5072.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5072.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2255	2255	2255	2255	2255	
5°	2231	2255	2237	2240	2254	212
15°	2127	2145	2130	2132	2145	599
25°	1914	1922	1898	1890	1891	880
35°	1596	1592	1556	1530	1521	995
45°	1206	1197	1150	1108	1092	932
55°	826	805	759	717	704	741
65°	504	483	452	438	439	503
75°	269	260	250	260	267	287
85°	95	91	91	106	105	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2254.7	2254.7	2254.7	2254.7	2254.7
2.5°	2239.0	2264.0	2245.3	2250.0	2255.4
5°	2231.2	2254.7	2236.7	2239.8	2253.9
7.5°	2214.0	2239.0	2221.0	2223.4	2239.8
10°	2192.1	2214.8	2197.6	2199.9	2211.6
12.5°	2163.9	2184.3	2167.1	2168.6	2182.7
15°	2127.2	2145.2	2130.3	2131.9	2145.2
17.5°	2085.0	2101.4	2082.6	2083.4	2092.8
20°	2034.9	2049.8	2029.4	2024.7	2036.5
22.5°	1977.0	1988.8	1967.6	1960.6	1968.4
25°	1913.7	1922.3	1898.0	1890.2	1891.0
27.5°	1841.7	1848.8	1824.5	1809.7	1811.2
30°	1765.1	1766.7	1739.3	1722.1	1719.0
32.5°	1682.2	1683.0	1650.1	1631.4	1622.8
35°	1596.2	1591.5	1556.3	1530.5	1521.1
37.5°	1502.3	1496.8	1460.1	1428.8	1418.6
40°	1406.1	1398.3	1356.9	1323.2	1309.9
42.5°	1309.2	1299.0	1253.6	1217.7	1195.8
45°	1205.9	1197.3	1149.6	1108.2	1091.7
47.5°	1108.2	1096.4	1048.0	1004.2	987.0
50°	1013.5	996.3	948.6	902.5	879.0
52.5°	917.3	898.6	850.1	805.5	790.7
55°	825.8	804.7	759.4	717.1	703.8
57.5°	738.3	717.1	672.6	635.8	623.3
60°	656.1	632.7	591.2	561.5	551.3
62.5°	577.2	554.5	519.3	495.8	491.1
65°	503.6	483.3	452.0	437.9	438.7
67.5°	437.2	419.2	393.4	388.7	386.3
70°	375.4	360.5	338.6	341.0	341.8
72.5°	319.9	308.1	295.6	298.7	303.4
75°	269.0	260.4	250.3	259.6	266.7
77.5°	222.9	214.3	210.4	221.3	227.6
80°	179.1	172.1	171.3	183.8	191.6
82.5°	136.1	131.4	130.6	144.7	150.2
85°	94.6	90.7	90.7	105.6	104.8
87.5°	50.8	49.3	46.1	55.5	50.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)