

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: P798161

Luminaire Tested: 14GRSCT3-F1-UNV-MID-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798161
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-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

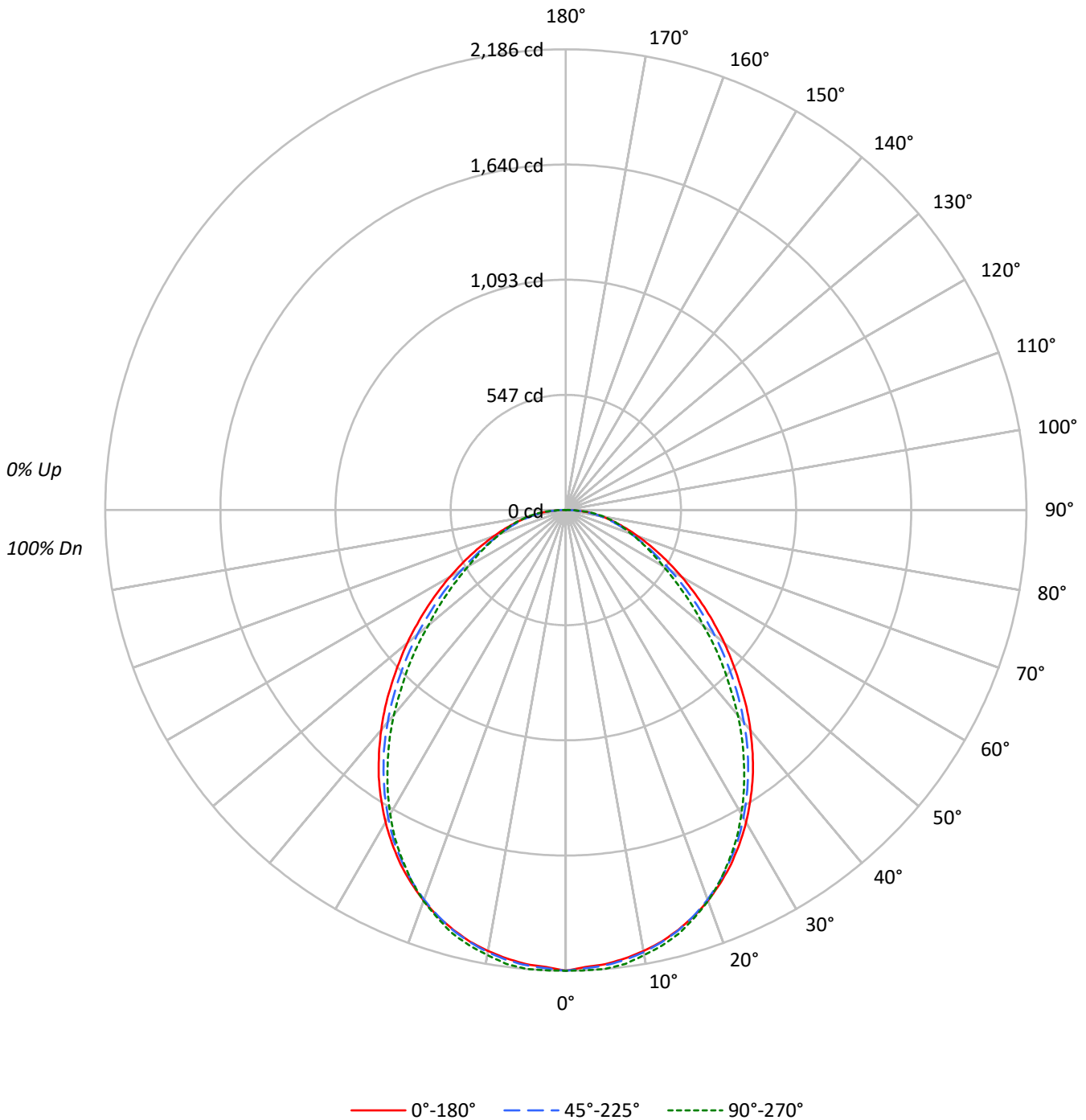
Lumens per Lamp: N/A
Luminaire Lumens: 4917.0 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 39.2
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°	5882	5882	5882
5°	5843	5857	5902
10°	5807	5821	5859
15°	5745	5753	5794
20°	5649	5634	5653
25°	5508	5463	5443
30°	5317	5239	5178
35°	5083	4956	4844
40°	4789	4621	4461
45°	4449	4241	4028
50°	4114	3850	3568
55°	3756	3454	3201
60°	3423	3085	2877
65°	3109	2790	2708
70°	2863	2583	2607
75°	2712	2522	2688
80°	2690	2572	2878
85°	2831	2714	3137

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4449 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.4	4.2
10°-20°	582.8	11.9
20°-30°	847.8	17.2
30°-40°	943.3	19.2
40°-50°	861.0	17.5
50°-60°	663.1	13.5
60°-70°	446.9	9.1
70°-80°	267.2	5.4
80°-90°	98.5	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°	1637.0	33.3
0°-40°	2580.3	52.5
0°-60°	4104.4	83.5
0°-90°	4917.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4917.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2186	2186	2186	2186	2186	
5°	2163	2186	2168	2171	2185	205
15°	2062	2080	2065	2067	2080	581
25°	1855	1864	1840	1832	1833	853
35°	1547	1543	1509	1484	1475	965
45°	1169	1161	1114	1074	1058	903
55°	801	780	736	695	682	718
65°	488	468	438	425	425	488
75°	261	252	243	252	258	278
85°	92	88	88	102	102	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2185.8	2185.8	2185.8	2185.8	2185.8
2.5°	2170.6	2194.9	2176.7	2181.2	2186.5
5°	2163.0	2185.8	2168.3	2171.4	2185.0
7.5°	2146.3	2170.6	2153.2	2155.4	2171.4
10°	2125.1	2147.1	2130.4	2132.7	2144.1
12.5°	2097.8	2117.5	2100.8	2102.4	2116.0
15°	2062.2	2079.6	2065.2	2066.7	2079.6
17.5°	2021.2	2037.2	2019.0	2019.7	2028.8
20°	1972.7	1987.1	1967.4	1962.9	1974.2
22.5°	1916.6	1928.0	1907.5	1900.7	1908.3
25°	1855.2	1863.5	1840.0	1832.5	1833.2
27.5°	1785.5	1792.3	1768.8	1754.4	1755.9
30°	1711.2	1712.7	1686.1	1669.5	1666.4
32.5°	1630.8	1631.5	1599.7	1581.5	1573.2
35°	1547.4	1542.8	1508.7	1483.7	1474.6
37.5°	1456.4	1451.1	1415.5	1385.1	1375.3
40°	1363.2	1355.6	1315.4	1282.8	1269.9
42.5°	1269.1	1259.3	1215.3	1180.4	1159.2
45°	1169.1	1160.7	1114.5	1074.3	1058.4
47.5°	1074.3	1062.9	1015.9	973.5	956.8
50°	982.6	965.9	919.6	874.9	852.2
52.5°	889.3	871.1	824.1	780.9	766.5
55°	800.6	780.1	736.2	695.2	682.3
57.5°	715.7	695.2	652.0	616.4	604.2
60°	636.1	613.3	573.2	544.4	534.5
62.5°	559.5	537.5	503.4	480.7	476.1
65°	488.3	468.5	438.2	424.6	425.3
67.5°	423.8	406.4	381.4	376.8	374.5
70°	363.9	349.5	328.3	330.6	331.3
72.5°	310.1	298.7	286.6	289.6	294.2
75°	260.8	252.5	242.6	251.7	258.5
77.5°	216.1	207.7	203.9	214.6	220.6
80°	173.6	166.8	166.0	178.2	185.7
82.5°	131.9	127.4	126.6	140.3	145.6
85°	91.7	87.9	87.9	102.4	101.6
87.5°	49.3	47.8	44.7	53.8	48.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)