

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: P798166

Luminaire Tested: 14GRSCT3-F125-UNV-LOW-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P290788)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14GRSCT3-F125-UNV-LOW-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

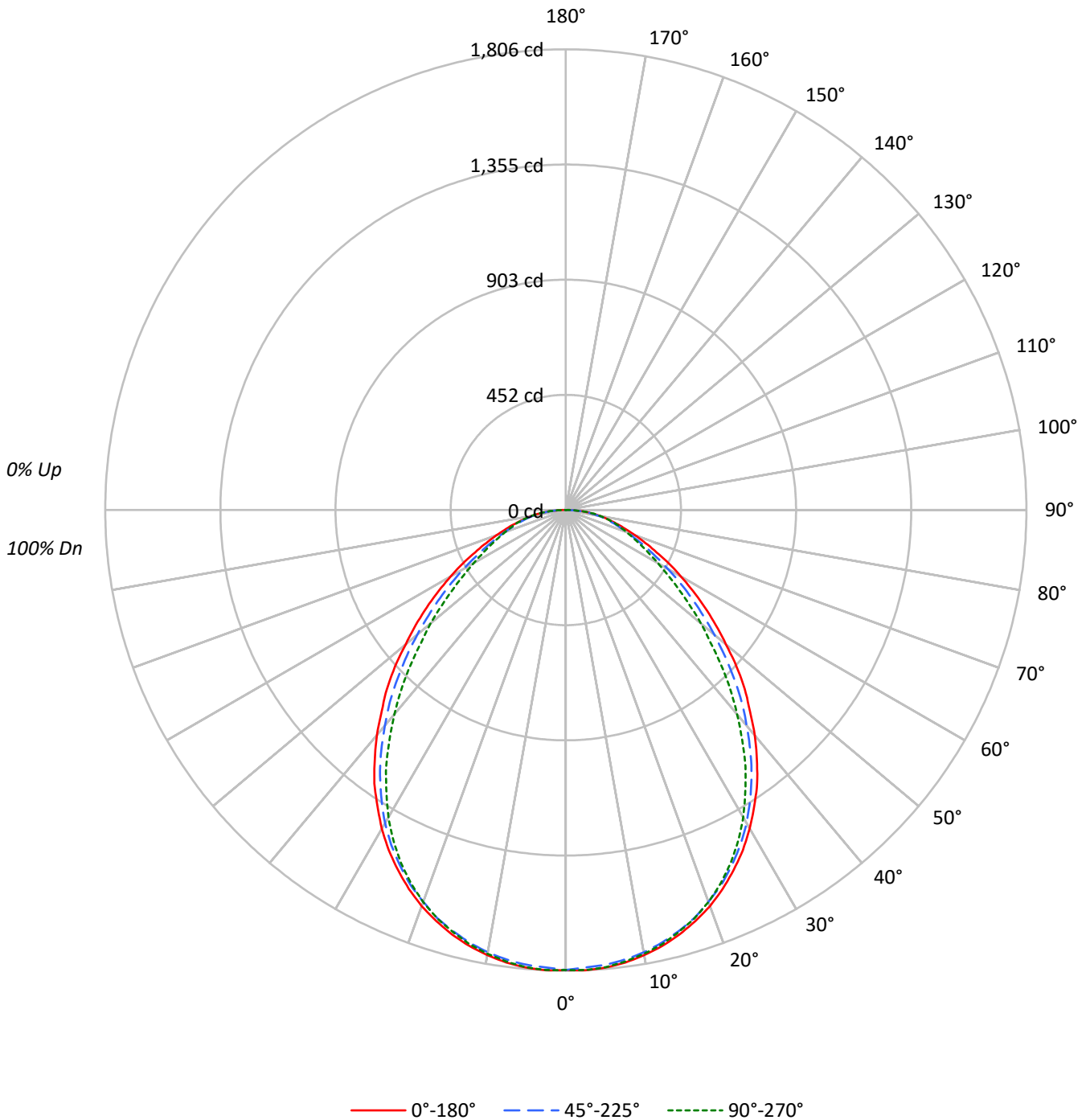
Lumens per Lamp: N/A
Luminaire Lumens: 4048.0 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
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	100	100	100	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85	85	85	85
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73	73	73	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63	63	63	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55	55	55	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48	48	48	48
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43	43	43	43
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38	38	38	38
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34	34	34	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31	31	31	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28	28	28	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4853	4853	4853
5°	4864	4833	4858
10°	4842	4811	4826
15°	4799	4762	4770
20°	4732	4680	4683
25°	4624	4567	4536
30°	4482	4405	4322
35°	4298	4173	4036
40°	4049	3875	3671
45°	3775	3547	3283
50°	3432	3183	2900
55°	3125	2822	2528
60°	2802	2485	2245
65°	2499	2213	2064
70°	2272	2018	1996
75°	2123	1965	2066
80°	2137	2033	2149
85°	2226	2081	2381

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3775 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.5	4.2
10°-20°	483.4	11.9
20°-30°	708.8	17.5
30°-40°	791.1	19.5
40°-50°	716.2	17.7
50°-60°	540.8	13.4
60°-70°	353.5	8.7
70°-80°	207.6	5.1
80°-90°	76.0	1.9
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°	1362.7	33.7
0°-40°	2153.8	53.2
0°-60°	3410.9	84.3
0°-90°	4048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4048.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1803	1803	1803	1803	1803	
5°	1800	1797	1789	1800	1799	171
15°	1723	1720	1709	1719	1712	485
25°	1557	1552	1538	1536	1528	716
35°	1308	1297	1270	1242	1228	815
45°	992	977	932	882	863	762
55°	666	651	602	554	539	596
65°	392	380	348	328	324	394
75°	204	199	189	193	199	219
85°	72	69	67	76	77	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1803.3	1803.3	1803.3	1803.3	1803.3
2.5°	1806.3	1803.3	1794.7	1806.3	1805.2
5°	1800.5	1796.7	1789.2	1799.7	1798.6
7.5°	1789.2	1785.3	1777.6	1787.2	1785.3
10°	1772.1	1768.2	1760.7	1771.0	1766.3
12.5°	1750.2	1746.4	1737.8	1747.2	1743.6
15°	1722.6	1719.8	1709.3	1718.7	1712.1
17.5°	1689.4	1684.5	1677.0	1682.8	1677.9
20°	1652.4	1646.6	1634.2	1640.0	1635.3
22.5°	1607.6	1599.9	1591.4	1591.4	1584.7
25°	1557.3	1551.6	1538.3	1535.5	1527.8
27.5°	1503.2	1498.5	1481.3	1476.4	1463.2
30°	1442.4	1435.8	1417.6	1402.4	1391.0
32.5°	1375.0	1370.0	1345.4	1325.5	1309.2
35°	1308.4	1297.0	1270.3	1241.8	1228.5
37.5°	1230.5	1221.9	1188.7	1153.4	1135.4
40°	1152.5	1142.1	1103.1	1064.1	1045.1
42.5°	1068.0	1058.3	1021.3	974.9	955.0
45°	992.0	976.8	932.0	881.7	862.7
47.5°	908.3	892.2	844.7	791.4	769.6
50°	819.9	809.6	760.2	708.8	692.7
52.5°	741.1	725.0	678.4	628.1	610.9
55°	666.0	650.8	601.5	554.0	538.8
57.5°	591.0	573.9	531.1	488.3	473.1
60°	520.6	503.5	461.7	426.6	417.2
62.5°	457.0	438.0	400.9	373.3	366.7
65°	392.4	380.0	347.6	327.7	324.1
67.5°	338.2	323.0	297.3	287.9	286.0
70°	288.8	278.3	256.5	253.7	253.7
72.5°	244.3	235.7	219.4	221.3	224.1
75°	204.2	198.7	189.0	192.9	198.7
77.5°	170.0	164.4	158.6	164.4	168.3
80°	137.9	132.1	131.2	135.9	138.7
82.5°	103.6	98.9	99.8	107.5	110.2
85°	72.1	69.4	67.4	76.0	77.1
87.5°	37.0	35.1	34.3	40.9	39.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)