

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: P798169

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798169
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-MID-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

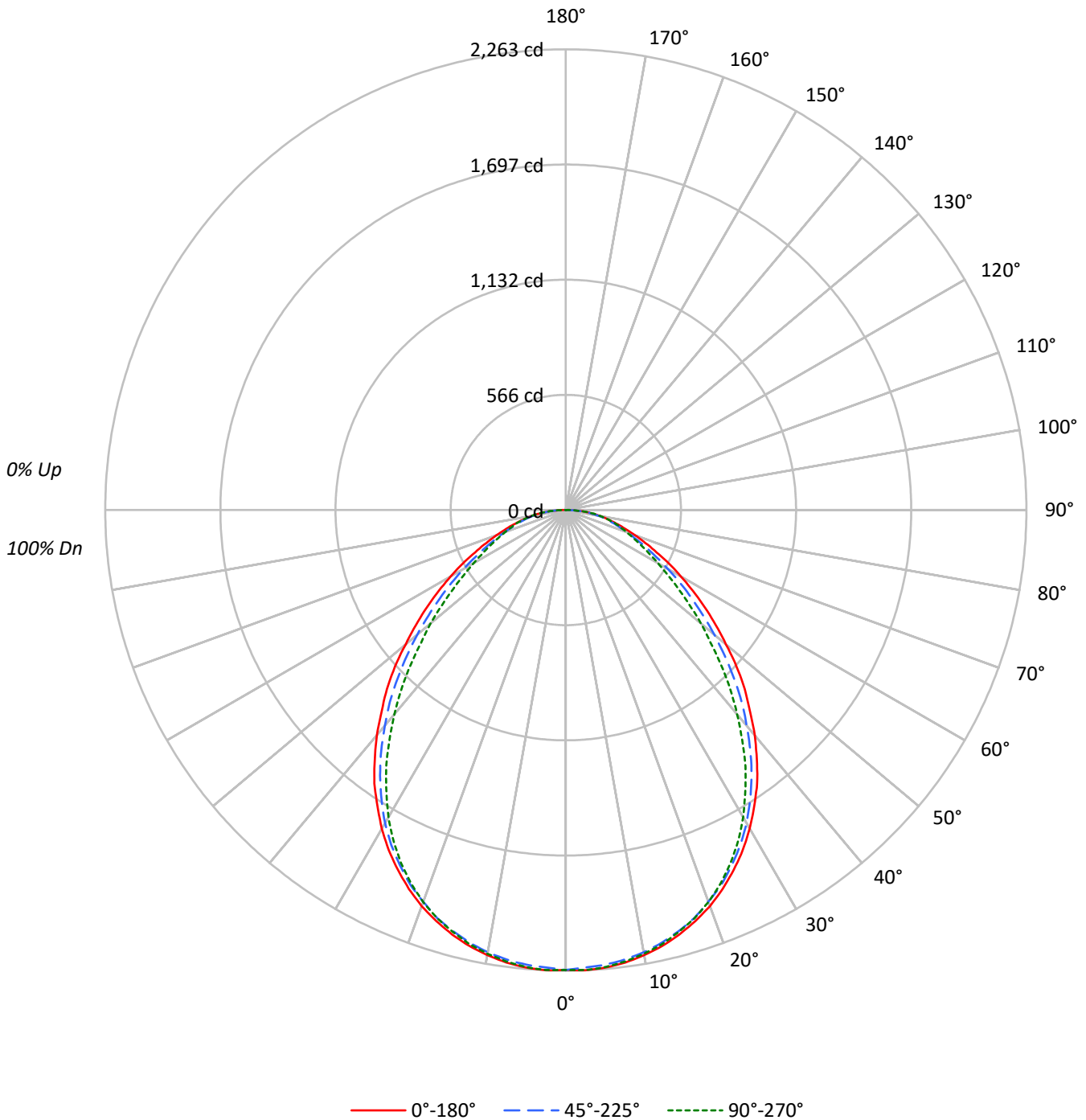
Lumens per Lamp: N/A
Luminaire Lumens: 5072.0 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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°	6080	6080	6080
5°	6094	6056	6088
10°	6067	6028	6047
15°	6013	5967	5976
20°	5929	5864	5867
25°	5794	5723	5684
30°	5616	5519	5416
35°	5386	5229	5057
40°	5073	4855	4600
45°	4730	4444	4113
50°	4301	3987	3634
55°	3915	3536	3167
60°	3511	3113	2814
65°	3130	2774	2586
70°	2847	2528	2500
75°	2661	2462	2588
80°	2676	2548	2693
85°	2791	2609	2983

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4730 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.7	4.2
10°-20°	605.7	11.9
20°-30°	888.1	17.5
30°-40°	991.2	19.5
40°-50°	897.4	17.7
50°-60°	677.6	13.4
60°-70°	442.9	8.7
70°-80°	260.1	5.1
80°-90°	95.2	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°	1707.5	33.7
0°-40°	2698.7	53.2
0°-60°	4273.7	84.3
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°	2260	2260	2260	2260	2260	
5°	2256	2251	2242	2255	2254	214
15°	2158	2155	2142	2154	2145	608
25°	1951	1944	1927	1924	1914	898
35°	1639	1625	1592	1556	1539	1021
45°	1243	1224	1168	1105	1081	955
55°	834	815	754	694	675	747
65°	492	476	436	411	406	493
75°	256	249	237	242	249	275
85°	90	87	84	95	97	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2259.5	2259.5	2259.5	2259.5	2259.5
2.5°	2263.2	2259.5	2248.7	2263.2	2261.9
5°	2256.0	2251.2	2241.8	2254.9	2253.6
7.5°	2241.8	2236.9	2227.3	2239.4	2236.9
10°	2220.3	2215.5	2206.1	2219.0	2213.1
12.5°	2193.0	2188.1	2177.4	2189.2	2184.6
15°	2158.4	2154.9	2141.7	2153.5	2145.2
17.5°	2116.8	2110.6	2101.2	2108.5	2102.3
20°	2070.4	2063.1	2047.6	2054.8	2048.9
22.5°	2014.3	2004.7	1993.9	1993.9	1985.6
25°	1951.3	1944.1	1927.4	1923.9	1914.3
27.5°	1883.4	1877.5	1856.1	1849.9	1833.3
30°	1807.3	1798.9	1776.1	1757.1	1742.9
32.5°	1722.8	1716.6	1685.8	1660.8	1640.4
35°	1639.4	1625.1	1591.6	1555.9	1539.3
37.5°	1541.7	1531.0	1489.4	1445.2	1422.6
40°	1444.1	1430.9	1382.1	1333.3	1309.4
42.5°	1338.1	1326.1	1279.7	1221.5	1196.5
45°	1242.9	1223.9	1167.8	1104.8	1080.9
47.5°	1138.1	1117.9	1058.4	991.6	964.2
50°	1027.3	1014.4	952.4	888.1	868.0
52.5°	928.6	908.5	850.0	787.0	765.5
55°	834.4	815.4	753.7	694.2	675.1
57.5°	740.6	719.1	665.5	611.8	592.8
60°	652.3	630.9	578.5	534.6	522.8
62.5°	572.6	548.8	502.4	467.8	459.5
65°	491.6	476.1	435.6	410.6	406.1
67.5°	423.8	404.7	372.6	360.8	358.3
70°	361.8	348.7	321.3	317.8	317.8
72.5°	306.0	295.3	274.9	277.3	280.8
75°	255.9	248.9	236.8	241.7	248.9
77.5°	213.0	206.0	198.8	206.0	210.8
80°	172.7	165.5	164.4	170.3	173.8
82.5°	129.8	123.9	125.0	134.6	138.1
85°	90.4	86.9	84.5	95.2	96.6
87.5°	46.4	44.0	42.9	51.2	48.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)