

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: P798152

Luminaire Tested: 14GRSCT3-A125-UNV-MID-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P291180)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14GRSCT3-A125-UNV-MID-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

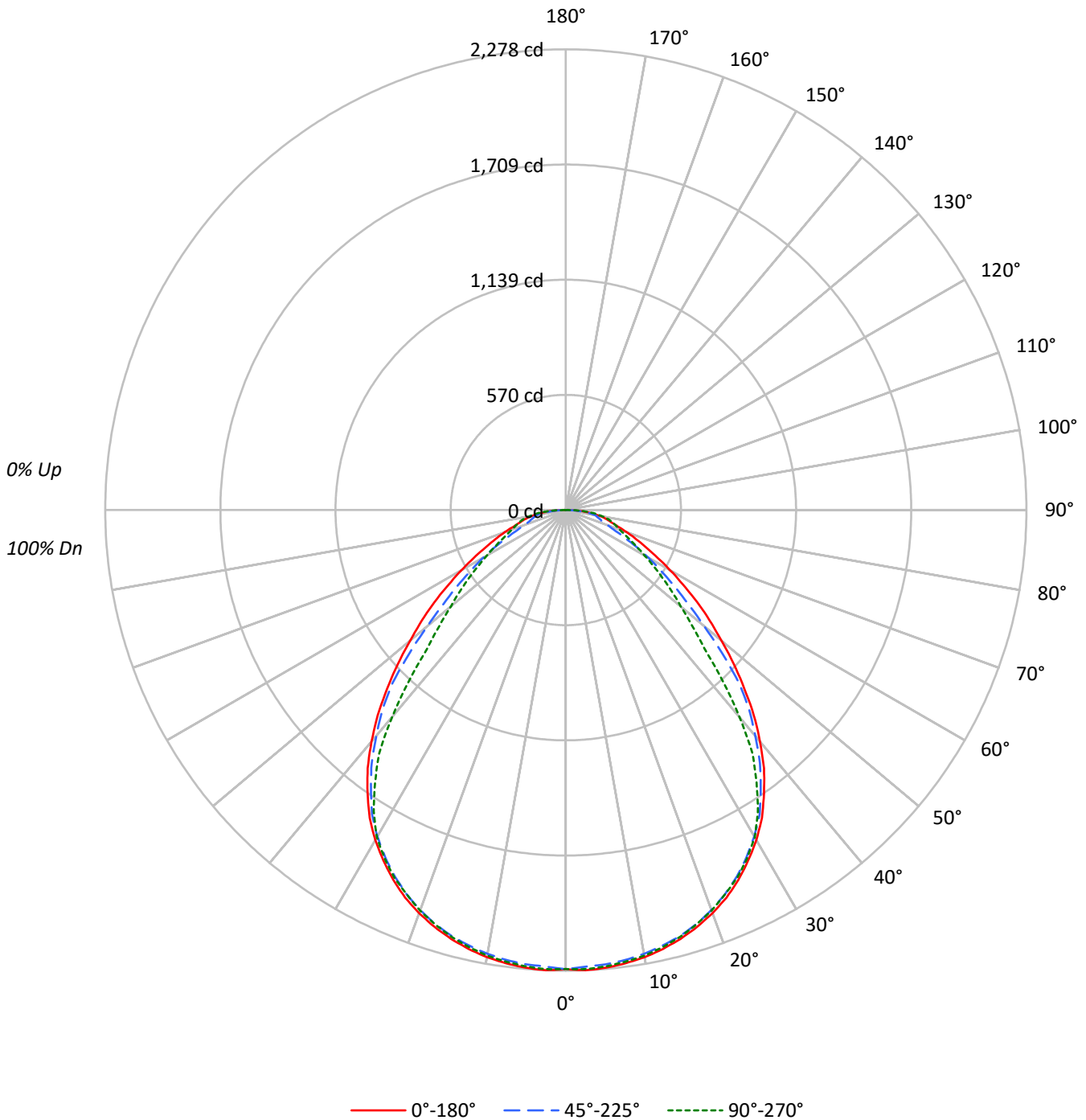
Lumens per Lamp: N/A
Luminaire Lumens: 4974.2 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	88	88	86
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	76	76	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	66	66	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	58	58	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	52	52	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	46	46	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	42	42	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	38	38	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	34	34	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	31	31	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6109	6109	6109
5°	6138	6091	6119
10°	6136	6089	6114
15°	6115	6076	6086
20°	6074	6028	6034
25°	5993	5938	5955
30°	5855	5791	5805
35°	5615	5520	5402
40°	5249	5120	4698
45°	4752	4615	3685
50°	4203	3735	3107
55°	3719	3069	2740
60°	3210	2540	2428
65°	2791	2020	2234
70°	2525	1735	2234
75°	2423	1811	2495
80°	2700	2309	2913
85°	2850	2458	3492

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4765 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.3	4.3
10°-20°	617.0	12.4
20°-30°	923.4	18.6
30°-40°	1045.3	21.0
40°-50°	890.4	17.9
50°-60°	602.9	12.1
60°-70°	359.9	7.2
70°-80°	224.9	4.5
80°-90°	95.1	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°	1755.8	35.3
0°-40°	2801.1	56.3
0°-60°	4294.4	86.3
0°-90°	4974.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4974.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2270	2270	2270	2270	2270	
5°	2272	2266	2255	2269	2265	216
15°	2195	2187	2181	2195	2184	619
25°	2018	2013	2000	2009	2006	928
35°	1709	1699	1680	1663	1644	1065
45°	1249	1252	1213	1034	968	963
55°	793	749	654	584	584	709
65°	438	366	317	339	351	442
75°	233	209	174	229	240	252
85°	92	85	80	100	113	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2270.0	2270.0	2270.0	2270.0	2270.0
2.5°	2278.0	2272.1	2259.6	2274.4	2272.1
5°	2272.1	2266.3	2254.9	2268.7	2265.3
7.5°	2260.6	2254.9	2244.5	2258.3	2252.6
10°	2245.5	2238.8	2228.4	2243.5	2237.5
12.5°	2222.7	2215.6	2206.5	2221.4	2213.3
15°	2194.8	2186.8	2181.0	2194.8	2184.4
17.5°	2161.3	2154.5	2146.5	2160.2	2148.8
20°	2121.0	2115.3	2104.9	2112.9	2107.2
22.5°	2075.0	2066.9	2056.5	2065.6	2057.5
25°	2018.3	2012.6	1999.8	2009.2	2005.5
27.5°	1953.8	1950.2	1935.3	1946.8	1941.1
30°	1884.4	1875.3	1863.6	1867.2	1868.2
32.5°	1804.8	1793.4	1784.0	1775.9	1767.9
35°	1709.1	1698.7	1680.3	1662.8	1644.4
37.5°	1609.8	1596.0	1577.5	1539.3	1516.4
40°	1494.3	1487.6	1457.4	1404.4	1337.5
42.5°	1376.8	1369.8	1343.3	1224.4	1151.6
45°	1248.6	1252.0	1212.7	1033.8	968.3
47.5°	1126.4	1135.5	1050.2	882.8	848.2
50°	1003.9	1014.3	892.1	762.9	742.1
52.5°	896.5	888.5	760.6	669.3	660.2
55°	792.8	748.9	654.2	584.0	584.0
57.5°	686.7	624.3	556.2	511.2	511.2
60°	596.5	519.3	471.9	442.0	451.1
62.5°	513.5	431.6	391.1	385.3	397.1
65°	438.4	365.8	317.2	339.3	350.8
67.5°	377.3	312.8	260.8	307.1	313.8
70°	320.9	272.2	220.5	282.6	283.9
72.5°	268.9	240.0	189.3	256.1	260.8
75°	233.0	208.8	174.2	228.6	240.0
77.5°	204.4	178.9	160.4	197.4	219.2
80°	174.2	146.7	149.0	166.2	188.0
82.5°	133.9	113.1	117.8	136.3	153.4
85°	92.3	85.3	79.6	100.4	113.1
87.5°	49.7	46.3	40.3	56.4	57.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)