

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: P798129

Luminaire Tested: 14GRSCT3-A-UNV-LOW-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P290984)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14GRSCT3-A-UNV-LOW-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

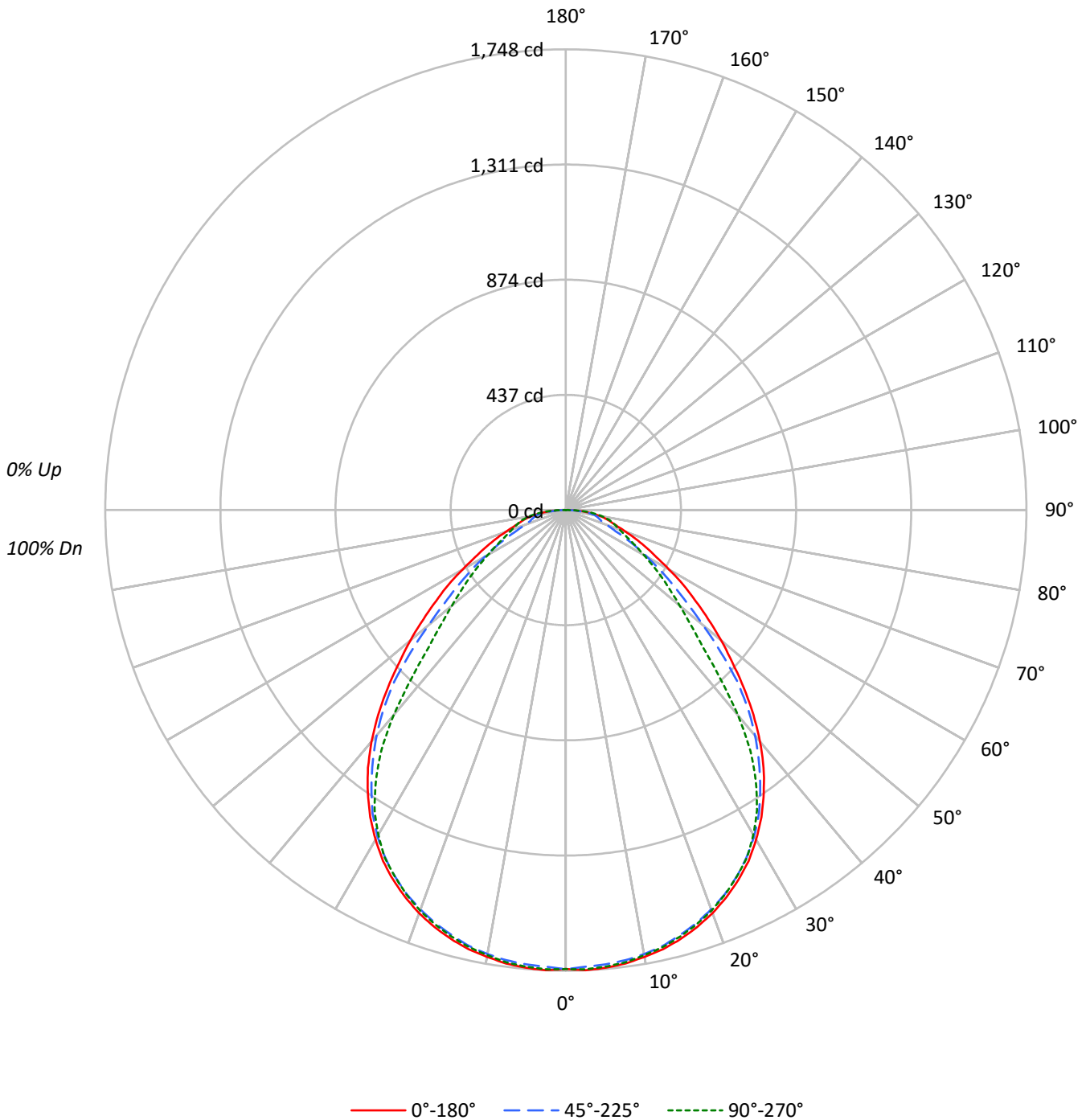
Lumens per Lamp: N/A
Luminaire Lumens: 3800.7 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 30.4
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	83	99	92	86	82	88	84	80	85	81	78	82	79	76	76	76	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	66	66	66	64
4	86	75	67	61	84	74	67	61	72	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	57	48	43	67	56	48	43	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	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	34	34	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	31	31	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4687	4687	4687
5°	4710	4674	4697
10°	4703	4674	4686
15°	4695	4653	4668
20°	4661	4618	4631
25°	4600	4555	4558
30°	4488	4441	4422
35°	4303	4225	4130
40°	4029	3926	3573
45°	3638	3500	2791
50°	3226	2842	2362
55°	2816	2332	2084
60°	2442	1919	1839
65°	2141	1540	1698
70°	1910	1306	1708
75°	1862	1377	1910
80°	2067	1737	2190
85°	2155	1853	2560

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3651 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.3	4.3
10°-20°	473.4	12.5
20°-30°	708.2	18.6
30°-40°	799.4	21.0
40°-50°	678.1	17.8
50°-60°	458.9	12.1
60°-70°	273.9	7.2
70°-80°	171.5	4.5
80°-90°	72.2	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°	1346.8	35.4
0°-40°	2146.2	56.5
0°-60°	3283.2	86.4
0°-90°	3800.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3800.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1742	1742	1742	1742	1742	
5°	1744	1738	1730	1742	1739	166
15°	1685	1682	1670	1682	1676	475
25°	1549	1544	1534	1541	1535	712
35°	1310	1301	1286	1275	1257	816
45°	956	960	920	788	734	737
55°	600	572	497	445	444	541
65°	336	279	242	258	267	336
75°	179	160	132	175	184	193
85°	70	66	60	78	83	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1741.7	1741.7	1741.7	1741.7	1741.7
2.5°	1747.9	1742.5	1734.6	1745.1	1744.3
5°	1743.5	1738.2	1730.2	1742.5	1739.0
7.5°	1735.6	1731.0	1723.1	1734.6	1731.0
10°	1721.3	1717.9	1710.7	1720.5	1715.1
12.5°	1706.4	1703.8	1694.8	1703.8	1698.4
15°	1685.1	1681.7	1670.2	1681.7	1675.5
17.5°	1658.6	1654.3	1644.5	1654.3	1648.9
20°	1627.8	1622.5	1612.7	1622.5	1617.1
22.5°	1590.7	1586.3	1577.5	1586.3	1579.3
25°	1549.3	1543.9	1534.2	1541.4	1535.0
27.5°	1501.6	1494.5	1485.7	1490.9	1487.5
30°	1444.2	1435.4	1429.3	1429.3	1423.1
32.5°	1381.5	1375.4	1364.6	1358.5	1350.5
35°	1310.0	1301.2	1286.1	1274.6	1257.1
37.5°	1233.3	1222.5	1204.0	1175.0	1151.2
40°	1146.8	1133.5	1117.6	1060.1	1017.0
42.5°	1053.9	1051.4	1023.9	925.9	865.9
45°	955.9	959.5	919.8	788.4	733.5
47.5°	857.2	869.5	797.1	668.3	640.1
50°	770.7	775.1	678.8	580.0	564.1
52.5°	681.4	674.5	579.1	510.3	498.7
55°	600.3	572.1	497.0	444.9	444.1
57.5°	528.8	476.7	424.6	385.8	390.2
60°	453.8	395.4	356.6	335.3	341.7
62.5°	387.4	332.0	297.6	291.2	302.0
65°	336.3	278.9	241.9	257.8	266.6
67.5°	287.8	239.1	196.8	234.8	238.3
70°	242.7	207.5	166.0	216.3	217.1
72.5°	205.7	183.7	143.9	196.0	198.6
75°	179.1	159.8	132.4	174.7	183.7
77.5°	157.0	136.8	122.6	150.9	166.0
80°	133.4	110.3	112.1	126.2	141.3
82.5°	102.4	85.7	89.3	104.2	114.7
85°	69.8	66.2	60.0	77.7	82.9
87.5°	37.2	35.4	30.8	44.1	41.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)