

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: P798248

Luminaire Tested: 24GRSCT3-A19 156-UNV-LOW-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P293962)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24GRSCT3-A19 156-UNV-LOW-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

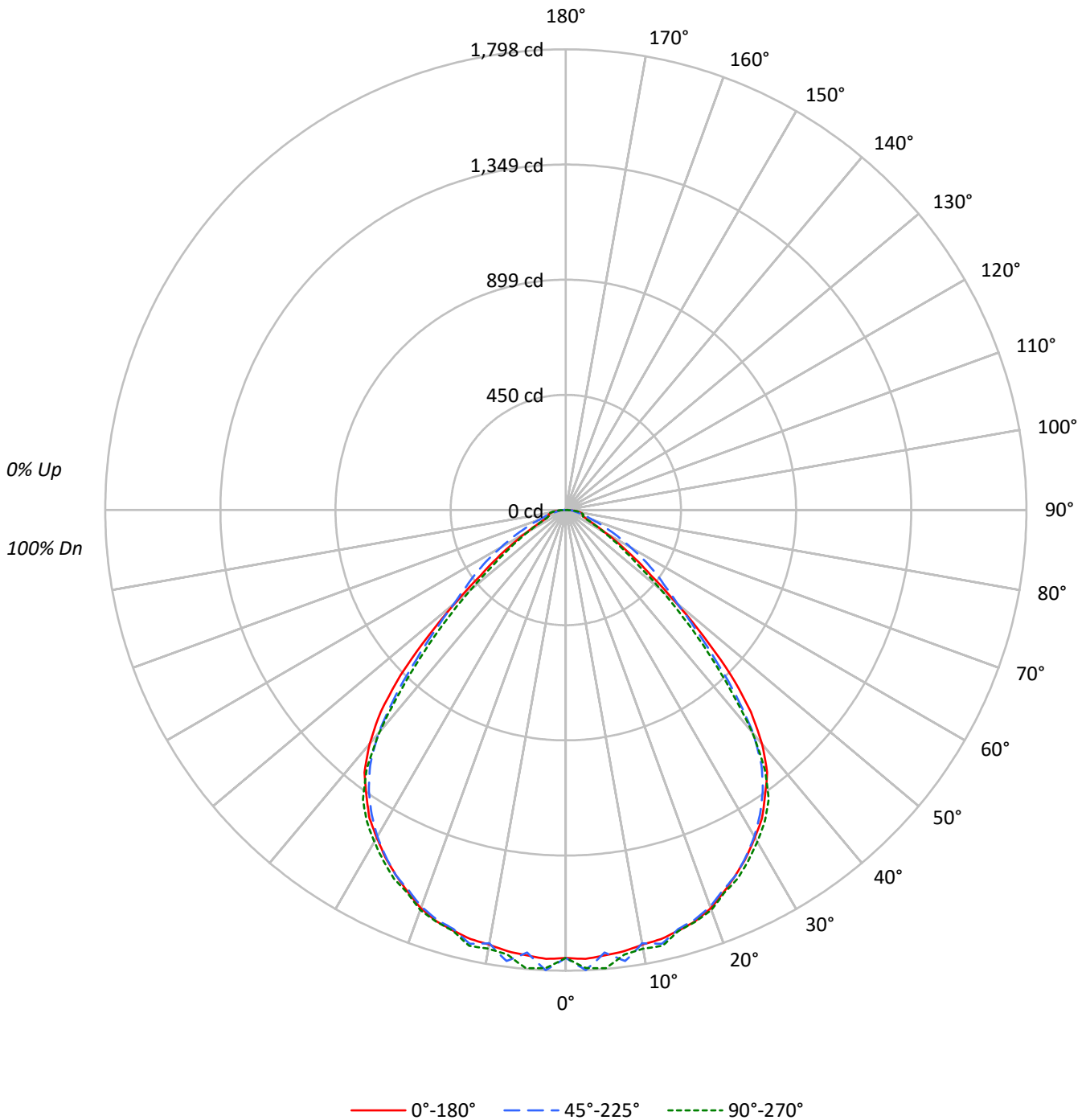
Lumens per Lamp: N/A
Luminaire Lumens: 3534.8 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24.1
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	102	102	102	100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	79	79	79	77
3	95	86	79	74	93	85	78	73	82	77	72	79	75	71	77	73	70	70	70	70	68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	62	62	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	55	55	55	53
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50	50	50	50	48
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	45	45	45	43
8	67	55	47	42	65	54	47	41	53	46	41	51	45	41	50	45	41	41	41	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	37	37	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	34	34	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2352	2352	2352
5°	2357	2341	2424
10°	2353	2346	2375
15°	2367	2359	2368
20°	2368	2359	2378
25°	2332	2333	2356
30°	2293	2286	2323
35°	2228	2201	2268
40°	2093	1999	1988
45°	1735	1570	1489
50°	1167	1191	1017
55°	770	999	667
60°	494	788	457
65°	318	602	309
70°	282	431	282
75°	363	342	366
80°	445	294	466
85°	517	438	543

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 1736 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.3	4.7
10°-20°	480.5	13.6
20°-30°	723.4	20.5
30°-40°	838.5	23.7
40°-50°	655.0	18.5
50°-60°	349.7	9.9
60°-70°	179.9	5.1
70°-80°	101.8	2.9
80°-90°	38.6	1.1
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°	1371.3	38.8
0°-40°	2209.8	62.5
0°-60°	3214.5	90.9
0°-90°	3534.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3534.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1748	1748	1748	1748	1748	
5°	1745	1794	1734	1781	1795	166
15°	1699	1710	1693	1704	1700	480
25°	1571	1566	1572	1570	1587	724
35°	1357	1350	1340	1367	1380	846
45°	912	912	825	818	782	687
55°	328	415	426	384	284	303
65°	100	208	189	208	97	110
75°	70	131	66	123	70	71
85°	34	44	28	44	35	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1747.9	1747.9	1747.9	1747.9	1747.9
2.5°	1753.5	1785.3	1797.7	1782.4	1789.3
5°	1745.0	1793.8	1733.6	1781.3	1794.9
7.5°	1737.0	1731.9	1775.7	1730.2	1749.6
10°	1722.3	1725.7	1717.1	1749.6	1738.1
12.5°	1715.4	1735.3	1733.6	1717.1	1742.2
15°	1699.1	1709.8	1693.3	1704.1	1700.1
17.5°	1682.6	1677.4	1675.7	1680.2	1684.2
20°	1654.1	1637.1	1647.4	1648.5	1661.0
22.5°	1613.2	1603.1	1605.3	1615.6	1616.7
25°	1570.8	1565.6	1571.8	1569.6	1587.1
27.5°	1526.5	1519.6	1523.6	1532.1	1542.8
30°	1476.0	1474.1	1471.4	1478.7	1495.2
32.5°	1426.0	1412.3	1410.1	1425.4	1444.1
35°	1356.7	1350.5	1340.3	1366.9	1380.5
37.5°	1290.9	1271.6	1255.1	1271.0	1276.6
40°	1191.6	1176.8	1138.2	1139.9	1132.0
42.5°	1069.5	1058.7	984.8	971.9	949.6
45°	911.6	912.2	824.9	817.5	782.3
47.5°	728.2	760.7	684.6	676.0	623.8
50°	557.5	615.9	568.8	555.1	485.9
52.5°	418.4	504.1	489.3	459.8	364.4
55°	328.1	414.9	425.8	383.7	284.4
57.5°	247.0	341.8	359.3	324.6	219.7
60°	183.4	287.8	293.0	279.3	169.7
62.5°	136.2	244.7	237.9	239.6	126.0
65°	99.9	208.3	189.1	207.8	97.1
67.5°	81.7	180.5	147.0	180.0	79.0
70°	71.6	160.1	109.6	158.4	71.6
72.5°	69.2	147.0	86.9	140.8	69.9
75°	69.9	131.2	65.8	122.6	70.4
77.5°	64.1	107.9	50.0	104.4	67.0
80°	57.4	81.7	38.0	82.8	60.1
82.5°	48.8	59.6	30.6	61.3	50.5
85°	33.5	43.8	28.4	43.8	35.2
87.5°	15.8	26.1	17.7	24.9	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)