

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: P798131

Luminaire Tested: 14GRSCT3-A-UNV-LOW-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798131
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-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

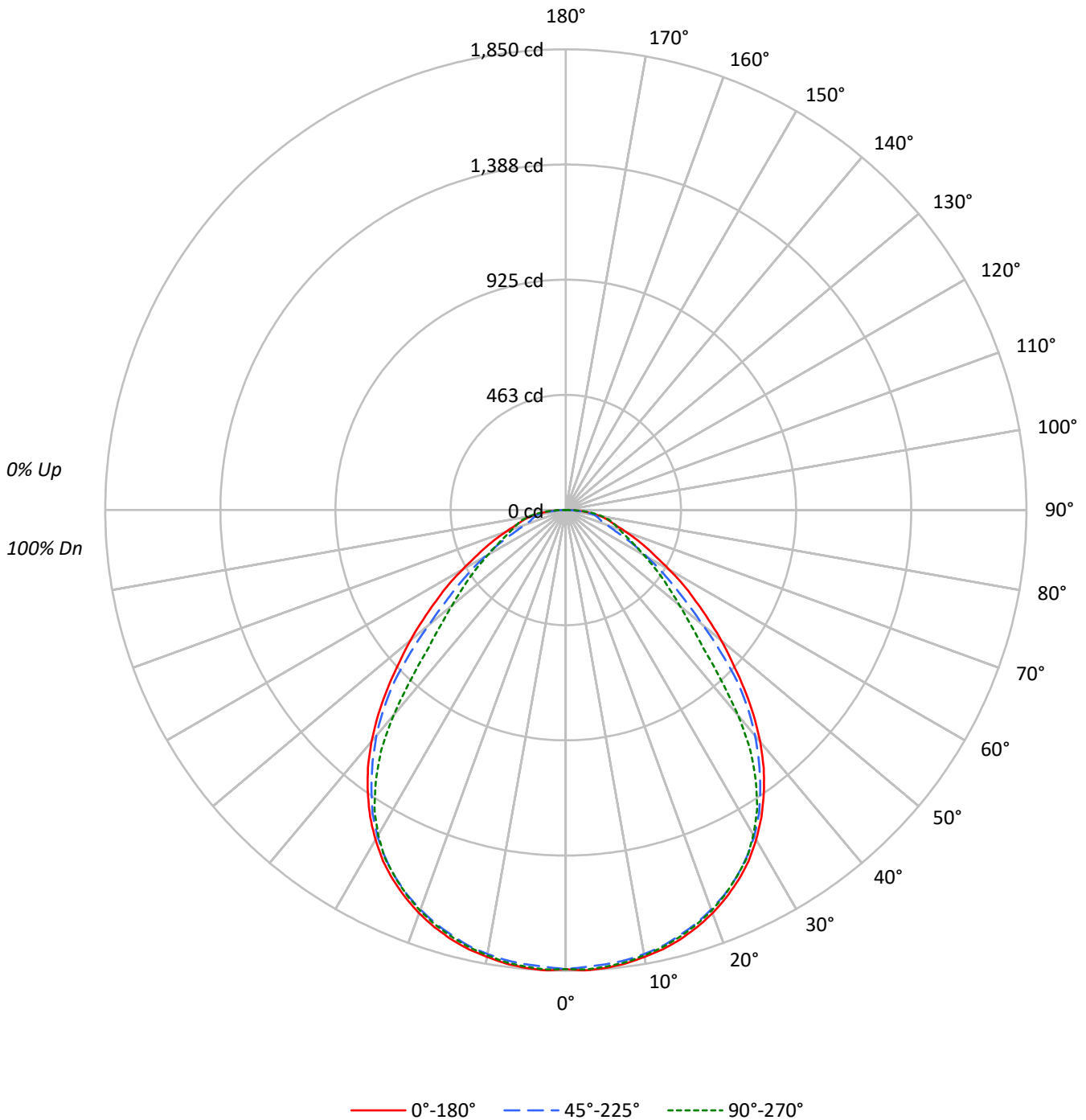
Lumens per Lamp: N/A
Luminaire Lumens: 4023.2 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 30.3
Input Voltage (V): 120
Input Current (A_{in}): 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	86	
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74	74	
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64	64	
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56	56	
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50	50	
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44	44	
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40	40	
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36	36	
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33	33	
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4961	4961	4961
5°	4985	4947	4972
10°	4979	4948	4961
15°	4969	4925	4941
20°	4934	4889	4902
25°	4869	4822	4824
30°	4750	4701	4681
35°	4555	4472	4371
40°	4264	4156	3782
45°	3851	3705	2955
50°	3415	3008	2500
55°	2981	2468	2206
60°	2585	2032	1947
65°	2267	1631	1797
70°	2021	1382	1808
75°	1971	1457	2021
80°	2188	1839	2318
85°	2282	1961	2708

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3865 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.9	4.3
10°-20°	501.1	12.5
20°-30°	749.6	18.6
30°-40°	846.2	21.0
40°-50°	717.8	17.8
50°-60°	485.7	12.1
60°-70°	289.9	7.2
70°-80°	181.6	4.5
80°-90°	76.4	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°	1425.6	35.4
0°-40°	2271.8	56.5
0°-60°	3475.3	86.4
0°-90°	4023.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4023.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1844	1844	1844	1844	1844	
5°	1846	1840	1832	1844	1841	175
15°	1784	1780	1768	1780	1774	503
25°	1640	1634	1624	1632	1625	754
35°	1387	1377	1361	1349	1331	864
45°	1012	1016	974	834	776	780
55°	636	606	526	471	470	572
65°	356	295	256	273	282	356
75°	190	169	140	185	194	204
85°	74	70	64	82	88	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1843.7	1843.7	1843.7	1843.7	1843.7
2.5°	1850.2	1844.5	1836.1	1847.3	1846.4
5°	1845.6	1839.9	1831.5	1844.5	1840.7
7.5°	1837.2	1832.3	1823.9	1836.1	1832.3
10°	1822.0	1818.4	1810.8	1821.2	1815.5
12.5°	1806.2	1803.5	1794.0	1803.5	1797.8
15°	1783.7	1780.1	1767.9	1780.1	1773.6
17.5°	1755.7	1751.1	1740.8	1751.1	1745.4
20°	1723.1	1717.4	1707.1	1717.4	1711.7
22.5°	1683.8	1679.1	1669.9	1679.1	1671.8
25°	1640.0	1634.3	1624.0	1631.6	1624.8
27.5°	1589.5	1581.9	1572.7	1578.1	1574.6
30°	1528.7	1519.4	1512.9	1512.9	1506.4
32.5°	1462.4	1455.9	1444.5	1438.0	1429.6
35°	1386.6	1377.4	1361.4	1349.2	1330.7
37.5°	1305.4	1294.1	1274.5	1243.8	1218.5
40°	1213.9	1199.8	1183.0	1122.2	1076.5
42.5°	1115.6	1112.9	1083.9	980.1	916.6
45°	1011.9	1015.7	973.6	834.5	776.4
47.5°	907.3	920.4	843.8	707.4	677.5
50°	815.8	820.4	718.6	614.0	597.2
52.5°	721.3	713.9	612.9	540.1	527.9
55°	635.5	605.6	526.0	470.9	470.1
57.5°	559.7	504.6	449.5	408.4	413.0
60°	480.4	418.5	377.5	355.0	361.7
62.5°	410.1	351.4	315.0	308.3	319.6
65°	356.0	295.2	256.1	272.9	282.2
67.5°	304.7	253.1	208.3	248.5	252.3
70°	256.9	219.7	175.7	228.9	229.8
72.5°	217.8	194.4	152.3	207.5	210.2
75°	189.6	169.2	140.1	185.0	194.4
77.5°	166.2	144.8	129.8	159.7	175.7
80°	141.2	116.8	118.7	133.6	149.6
82.5°	108.4	90.7	94.5	110.3	121.4
85°	73.9	70.1	63.5	82.3	87.7
87.5°	39.3	37.5	32.6	46.7	44.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)