

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: P798143

Luminaire Tested: 14GRSCT3-A19 156-UNV-MID-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P291376)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14GRSCT3-A19 156-UNV-MID-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

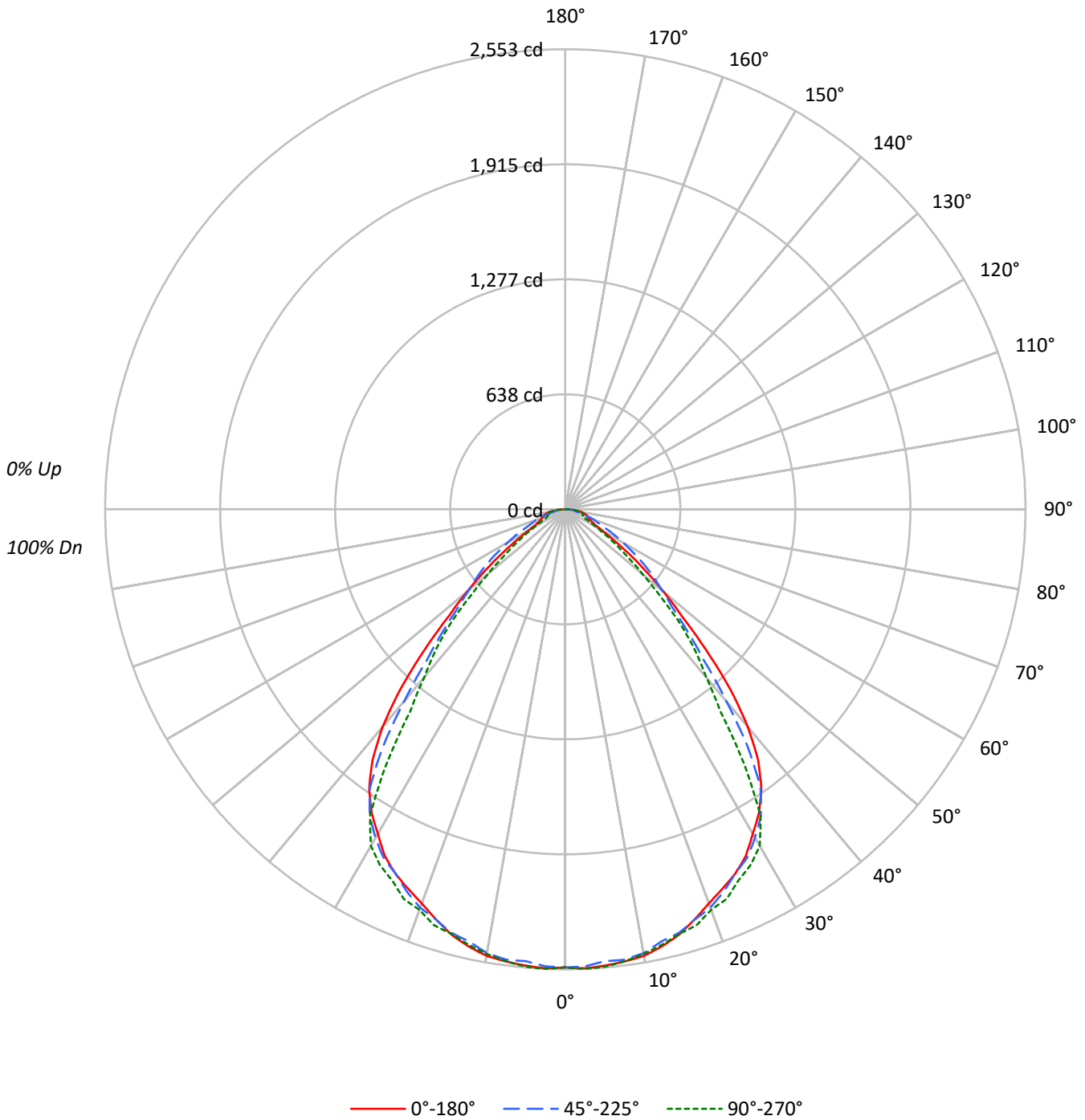
Lumens per Lamp: N/A
Luminaire Lumens: 4781.8 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 39.2
Input Voltage (V): 120
Input Current (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				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	104	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	87	83	88	84	81	85	82	79	79	79	79	77
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	70	70	70	68
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	63	63	63	61
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	56	56	56	54
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	51	51	51	49
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	46	46	46	44
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	42	42	42	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	38	38	38	37
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35	35	35	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6842	6842	6842
5°	6866	6800	6880
10°	6876	6834	6846
15°	6806	6782	6797
20°	6664	6737	6774
25°	6623	6620	6747
30°	6462	6540	6700
35°	6231	6206	5703
40°	5533	4883	4275
45°	4199	3653	3457
50°	2978	2924	2346
55°	2038	2496	1612
60°	1261	1991	1077
65°	1038	1533	780
70°	1033	1336	802
75°	1240	957	1071
80°	1426	882	1342
85°	1349	1556	1516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4383 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.3	5.0
10°-20°	688.6	14.4
20°-30°	1035.5	21.7
30°-40°	1128.9	23.6
40°-50°	790.5	16.5
50°-60°	447.5	9.4
60°-70°	244.9	5.1
70°-80°	148.4	3.1
80°-90°	56.3	1.2
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°	1965.4	41.1
0°-40°	3094.3	64.7
0°-60°	4332.3	90.6
0°-90°	4781.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4781.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2543	2543	2543	2543	2543	
5°	2542	2537	2518	2547	2547	242
15°	2443	2437	2434	2469	2440	687
25°	2231	2235	2230	2281	2272	1025
35°	1897	1888	1889	1793	1736	1169
45°	1103	1152	960	948	908	857
55°	434	520	532	528	344	397
65°	163	268	241	304	122	168
75°	119	172	92	181	103	124
85°	44	71	50	61	49	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2542.7	2542.7	2542.7	2542.7	2542.7
2.5°	2549.2	2546.1	2538.3	2553.6	2552.6
5°	2541.7	2537.2	2517.5	2547.1	2547.1
7.5°	2530.7	2519.8	2520.9	2537.2	2529.7
10°	2516.4	2497.7	2501.1	2505.5	2505.5
12.5°	2483.7	2466.0	2457.4	2471.5	2475.9
15°	2443.1	2436.6	2434.3	2469.4	2439.7
17.5°	2386.2	2400.5	2387.2	2415.8	2420.2
20°	2327.2	2354.5	2352.4	2371.9	2365.4
22.5°	2279.1	2296.5	2296.5	2320.7	2340.2
25°	2230.7	2235.1	2229.6	2281.1	2272.3
27.5°	2168.3	2165.2	2182.6	2208.8	2226.3
30°	2079.6	2080.9	2104.8	2139.9	2156.3
32.5°	1998.8	1988.9	2018.5	2033.9	2016.2
35°	1896.8	1888.2	1889.3	1792.8	1736.1
37.5°	1758.0	1765.5	1664.9	1488.6	1414.2
40°	1575.2	1590.5	1390.1	1258.7	1217.1
42.5°	1353.9	1358.3	1139.4	1096.8	1069.5
45°	1103.3	1151.6	960.0	948.0	908.5
47.5°	874.7	964.4	804.5	812.3	718.2
50°	711.4	801.1	698.4	701.5	560.3
52.5°	562.7	650.3	616.2	606.4	439.9
55°	434.5	520.0	532.0	527.6	343.7
57.5°	319.6	411.6	446.7	463.1	265.0
60°	234.3	335.9	370.0	402.8	200.2
62.5°	186.2	291.2	303.2	351.3	155.5
65°	163.0	268.1	240.8	304.2	122.5
67.5°	145.6	255.1	196.1	269.4	107.4
70°	131.3	229.9	169.8	240.8	101.9
72.5°	131.3	201.5	133.6	213.5	103.0
75°	119.3	171.9	92.0	180.7	103.0
77.5°	106.1	146.6	68.9	146.6	96.2
80°	92.0	114.9	56.9	112.8	86.6
82.5°	67.9	86.6	49.1	84.2	69.9
85°	43.7	71.2	50.4	61.4	49.1
87.5°	20.8	36.1	31.7	30.7	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)