

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: P798137

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798137
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-HIGH-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

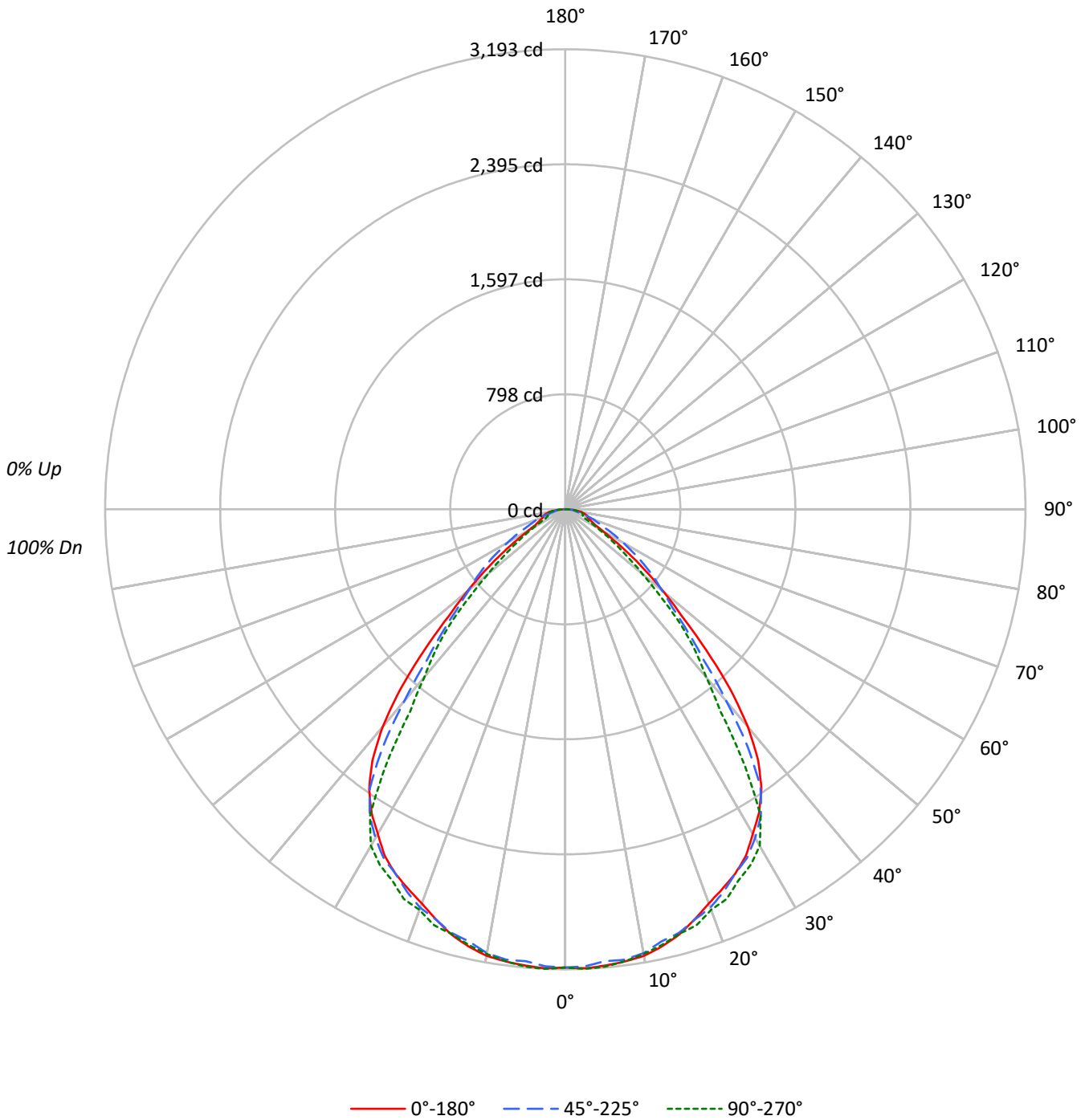
Lumens per Lamp: N/A
Luminaire Lumens: 5980.9 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 52.9
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



TEST NUMBER: P798137
CATALOG NUMBER: 14GRSCT3-A19 156-UNV-HIGH-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P798137

CATALOG NUMBER: 14GRSCT3-A19 156-UNV-HIGH-4000K

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	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°	8558	8558	8558
5°	8587	8506	8606
10°	8601	8548	8563
15°	8513	8482	8501
20°	8335	8426	8472
25°	8284	8280	8439
30°	8082	8181	8380
35°	7794	7763	7134
40°	6921	6107	5348
45°	5251	4569	4324
50°	3725	3657	2934
55°	2549	3122	2017
60°	1577	2491	1348
65°	1298	1918	975
70°	1292	1671	1003
75°	1552	1197	1339
80°	1784	1103	1678
85°	1686	1948	1899

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 5482 cd/sqm



TEST NUMBER: P798137
 CATALOG NUMBER: 14GRSCT3-A19 156-UNV-HIGH-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.8	5.0
10°-20°	861.3	14.4
20°-30°	1295.2	21.7
30°-40°	1412.0	23.6
40°-50°	988.7	16.5
50°-60°	559.7	9.4
60°-70°	306.2	5.1
70°-80°	185.6	3.1
80°-90°	70.4	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°	2458.2	41.1
0°-40°	3870.3	64.7
0°-60°	5418.6	90.6
0°-90°	5980.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5980.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3180	3180	3180	3180	3180	
5°	3179	3174	3149	3186	3186	302
15°	3056	3048	3045	3089	3052	859
25°	2790	2796	2789	2853	2842	1281
35°	2372	2362	2363	2242	2172	1462
45°	1380	1440	1201	1186	1136	1072
55°	543	650	665	660	430	497
65°	204	335	301	380	153	210
75°	149	215	115	226	129	155
85°	55	89	63	77	62	61
90°	0	0	0	0	0	

TEST NUMBER: P798137

CATALOG NUMBER: 14GRSCT3-A19 156-UNV-HIGH-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3180.3	3180.3	3180.3	<i>3180.3</i>	3180.3
2.5°	<i>3188.5</i>	<i>3184.6</i>	<i>3174.8</i>	<i>3194.0</i>	<i>3192.7</i>
5°	3179.0	3173.5	3148.8	<i>3185.9</i>	3185.9
7.5°	3165.4	3151.7	3153.0	<i>3173.5</i>	3164.1
10°	3147.5	3124.1	3128.3	<i>3133.8</i>	3133.8
12.5°	3106.5	3084.4	3073.7	<i>3091.2</i>	3096.7
15°	3055.8	3047.6	3044.7	<i>3088.6</i>	3051.5
17.5°	2984.5	3002.4	2985.8	<i>3021.6</i>	3027.1
20°	2910.7	2944.9	2942.3	<i>2966.7</i>	2958.5
22.5°	2850.6	2872.3	2872.3	<i>2902.6</i>	2927.0
25°	2790.1	2795.6	2788.8	<i>2853.2</i>	2842.1
27.5°	2712.0	2708.1	2729.9	<i>2762.7</i>	2784.5
30°	2601.1	2602.7	2632.7	<i>2676.6</i>	2697.0
32.5°	2500.0	2487.6	2524.7	<i>2543.9</i>	2521.8
35°	2372.5	2361.7	2363.0	<i>2242.4</i>	2171.5
37.5°	2198.8	2208.2	2082.4	<i>1861.9</i>	1768.9
40°	1970.2	1989.4	1738.6	<i>1574.4</i>	1522.4
42.5°	1693.4	1698.9	1425.1	<i>1371.8</i>	1337.6
45°	1379.9	1440.4	1200.7	<i>1185.8</i>	1136.3
47.5°	1094.0	1206.2	1006.2	<i>1016.0</i>	898.3
50°	889.8	1002.0	873.5	<i>877.4</i>	700.8
52.5°	703.8	813.4	770.8	<i>758.4</i>	550.3
55°	543.4	650.4	665.4	<i>659.9</i>	429.9
57.5°	399.7	514.8	558.7	<i>579.2</i>	331.4
60°	293.0	420.2	462.8	<i>503.8</i>	250.4
62.5°	232.9	364.2	379.2	<i>439.4</i>	194.5
65°	203.9	335.3	301.2	<i>380.5</i>	153.2
67.5°	182.1	319.0	245.2	<i>336.9</i>	134.3
70°	164.2	287.5	212.4	<i>301.2</i>	127.5
72.5°	164.2	252.0	167.2	<i>267.0</i>	128.8
75°	149.3	215.0	115.1	<i>226.0</i>	128.8
77.5°	132.7	183.4	86.2	<i>183.4</i>	120.3
80°	115.1	143.7	71.2	<i>141.1</i>	108.3
82.5°	84.9	108.3	61.5	<i>105.4</i>	87.5
85°	54.6	89.1	63.1	<i>76.8</i>	61.5
87.5°	26.0	45.2	39.7	<i>38.4</i>	31.5
90°	0.0	0.0	0.0	<i>0.0</i>	0.0

(END OF REPORT)