

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: P798141

Luminaire Tested: 14GRSCT3-A19 156-UNV-MID-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798141
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-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

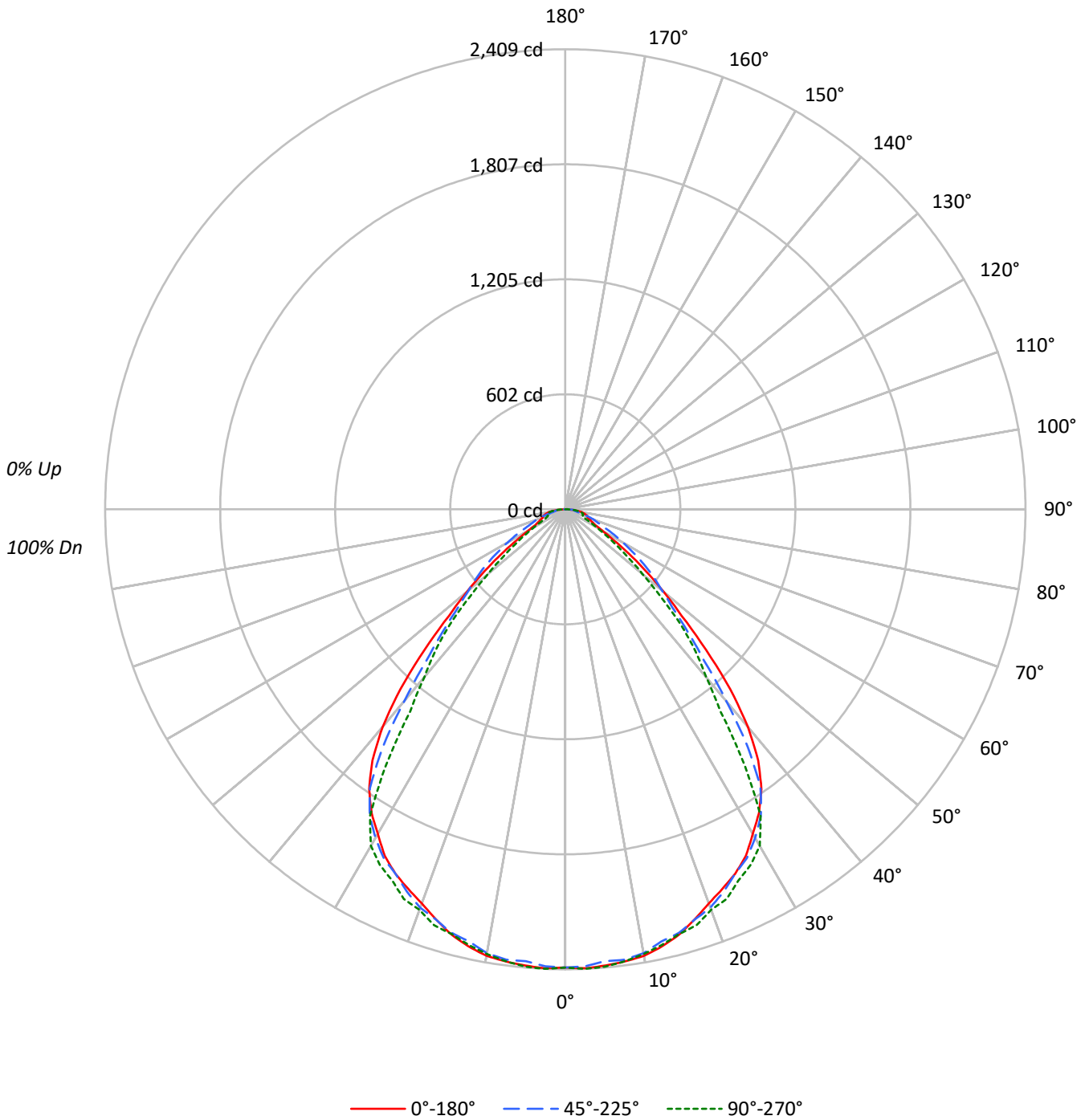
Lumens per Lamp: N/A
Luminaire Lumens: 4512.4 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 39.4
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	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°	6457	6457	6457
5°	6479	6417	6493
10°	6489	6449	6461
15°	6423	6400	6414
20°	6289	6357	6392
25°	6250	6247	6367
30°	6098	6172	6323
35°	5880	5857	5382
40°	5221	4608	4035
45°	3962	3448	3263
50°	2810	2759	2214
55°	1924	2355	1522
60°	1190	1879	1017
65°	979	1447	736
70°	975	1260	757
75°	1171	904	1011
80°	1347	832	1266
85°	1272	1470	1433

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4136 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.7	5.0
10°-20°	649.8	14.4
20°-30°	977.2	21.7
30°-40°	1065.3	23.6
40°-50°	745.9	16.5
50°-60°	422.3	9.4
60°-70°	231.0	5.1
70°-80°	140.1	3.1
80°-90°	53.1	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°	1854.7	41.1
0°-40°	2920.0	64.7
0°-60°	4088.2	90.6
0°-90°	4512.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4512.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2400	2400	2400	2400	2400	
5°	2398	2394	2376	2404	2404	228
15°	2306	2299	2297	2330	2302	648
25°	2105	2109	2104	2153	2144	967
35°	1790	1782	1783	1692	1638	1103
45°	1041	1087	906	895	857	809
55°	410	491	502	498	324	375
65°	154	253	227	287	116	158
75°	113	162	87	170	97	117
85°	41	67	48	58	46	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2399.5	2399.5	2399.5	2399.5	2399.5
2.5°	2405.6	2402.7	2395.3	2409.8	2408.8
5°	2398.5	2394.3	2375.7	2403.6	2403.6
7.5°	2388.2	2377.9	2378.9	2394.3	2387.2
10°	2374.7	2357.0	2360.2	2364.4	2364.4
12.5°	2343.8	2327.1	2319.0	2332.2	2336.4
15°	2305.5	2299.4	2297.1	2330.3	2302.3
17.5°	2251.8	2265.2	2252.7	2279.7	2283.9
20°	2196.1	2221.8	2219.9	2238.3	2232.1
22.5°	2150.7	2167.1	2167.1	2189.9	2208.3
25°	2105.0	2109.2	2104.0	2152.6	2144.3
27.5°	2046.1	2043.2	2059.6	2084.4	2100.8
30°	1962.5	1963.7	1986.3	2019.4	2034.8
32.5°	1886.2	1876.8	1904.8	1919.3	1902.6
35°	1790.0	1781.9	1782.9	1691.8	1638.3
37.5°	1658.9	1666.1	1571.1	1404.7	1334.6
40°	1486.4	1500.9	1311.7	1187.8	1148.6
42.5°	1277.6	1281.8	1075.2	1035.0	1009.2
45°	1041.1	1086.7	905.9	894.6	857.3
47.5°	825.4	910.1	759.2	766.5	677.7
50°	671.3	756.0	659.1	662.0	528.8
52.5°	531.0	613.7	581.5	572.2	415.2
55°	410.0	490.7	502.0	497.9	324.4
57.5°	301.6	388.4	421.5	437.0	250.0
60°	221.1	317.0	349.2	380.1	188.9
62.5°	175.7	274.8	286.1	331.5	146.7
65°	153.8	253.0	227.2	287.1	115.6
67.5°	137.4	240.7	185.0	254.2	101.3
70°	123.9	216.9	160.2	227.2	96.2
72.5°	123.9	190.2	126.1	201.4	97.2
75°	112.6	162.2	86.9	170.5	97.2
77.5°	100.1	138.4	65.0	138.4	90.8
80°	86.9	108.5	53.7	106.5	81.7
82.5°	64.0	81.7	46.4	79.5	66.0
85°	41.2	67.2	47.6	57.9	46.4
87.5°	19.6	34.1	29.9	29.0	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)