

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P798251

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798251
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-MID-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

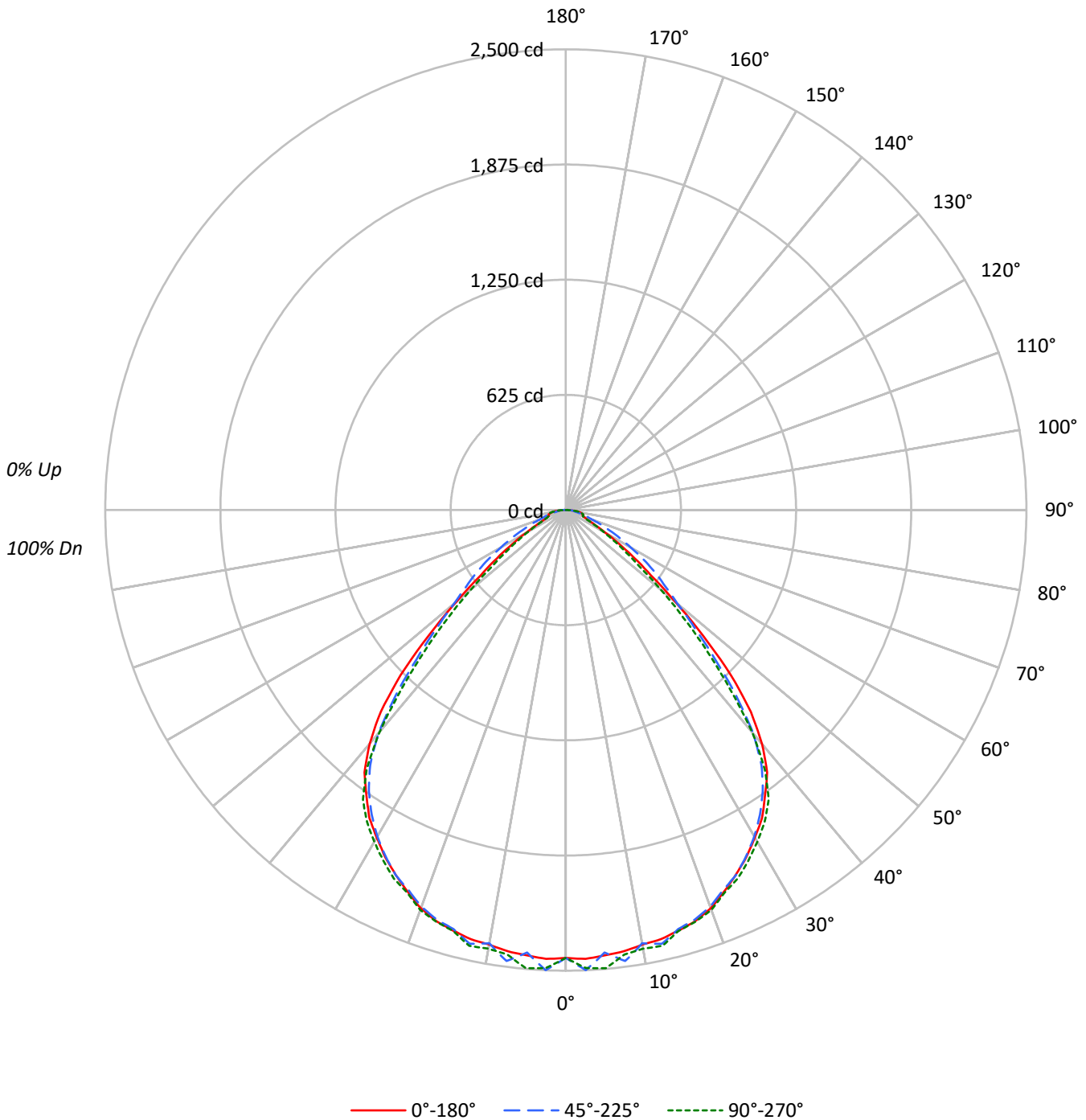
Lumens per Lamp: N/A
Luminaire Lumens: 4915.0 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.2
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°	3270	3270	3270
5°	3277	3256	3371
10°	3272	3262	3302
15°	3291	3280	3293
20°	3293	3280	3307
25°	3242	3245	3276
30°	3189	3179	3230
35°	3099	3061	3153
40°	2910	2780	2765
45°	2412	2182	2070
50°	1623	1656	1414
55°	1070	1389	928
60°	686	1096	635
65°	442	837	430
70°	391	600	391
75°	505	476	509
80°	618	410	648
85°	719	610	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2414 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.7	4.7
10°-20°	668.1	13.6
20°-30°	1005.9	20.5
30°-40°	1165.9	23.7
40°-50°	910.7	18.5
50°-60°	486.3	9.9
60°-70°	250.1	5.1
70°-80°	141.5	2.9
80°-90°	53.7	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°	1906.7	38.8
0°-40°	3072.6	62.5
0°-60°	4469.7	90.9
0°-90°	4915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4915.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2430	2430	2430	2430	2430	
5°	2426	2494	2410	2477	2496	231
15°	2362	2378	2354	2370	2364	667
25°	2184	2177	2186	2182	2207	1006
35°	1886	1878	1864	1901	1920	1176
45°	1268	1268	1147	1137	1088	955
55°	456	577	592	534	395	421
65°	139	290	263	289	135	153
75°	97	182	92	170	98	98
85°	47	61	40	61	49	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2430.4	2430.4	2430.4	2430.4	2430.4
2.5°	2438.1	2482.4	2499.7	2478.4	2488.0
5°	2426.4	2494.3	2410.5	2476.8	2495.7
7.5°	2415.2	2408.2	2469.0	2405.8	2432.7
10°	2394.8	2399.5	2387.6	2432.7	2416.8
12.5°	2385.2	2412.9	2410.5	2387.6	2422.4
15°	2362.5	2377.5	2354.5	2369.5	2363.9
17.5°	2339.6	2332.3	2330.0	2336.3	2341.9
20°	2300.0	2276.4	2290.6	2292.3	2309.6
22.5°	2243.1	2229.1	2232.1	2246.4	2248.0
25°	2184.1	2176.9	2185.5	2182.5	2206.8
27.5°	2122.5	2113.0	2118.6	2130.3	2145.3
30°	2052.3	2049.8	2046.0	2056.1	2079.0
32.5°	1982.8	1963.8	1960.7	1982.0	2008.0
35°	1886.5	1877.9	1863.6	1900.6	1919.6
37.5°	1795.0	1768.1	1745.1	1767.4	1775.1
40°	1656.8	1636.3	1582.6	1585.0	1574.0
42.5°	1487.1	1472.1	1369.4	1351.3	1320.5
45°	1267.6	1268.5	1146.9	1136.6	1087.7
47.5°	1012.6	1057.7	951.9	940.0	867.4
50°	775.2	856.4	790.9	771.9	675.7
52.5°	581.8	700.9	680.4	639.4	506.7
55°	456.3	576.9	592.1	533.6	395.4
57.5°	343.4	475.2	499.6	451.4	305.5
60°	255.0	400.1	407.4	388.4	236.0
62.5°	189.4	340.2	330.8	333.1	175.1
65°	138.9	289.6	262.9	288.9	135.1
67.5°	113.6	251.0	204.4	250.3	109.8
70°	99.5	222.6	152.4	220.3	99.5
72.5°	96.2	204.4	120.8	195.7	97.1
75°	97.1	182.4	91.5	170.5	97.9
77.5°	89.2	150.0	69.5	145.2	93.2
80°	79.8	113.6	52.9	115.2	83.6
82.5°	67.9	82.9	42.6	85.2	70.2
85°	46.6	60.8	39.5	60.8	48.9
87.5°	22.0	36.3	24.6	34.7	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)