

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: P798278

Luminaire Tested: 24GRSCT3-F125-UNV-MID-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P293206)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24GRSCT3-F125-UNV-MID-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

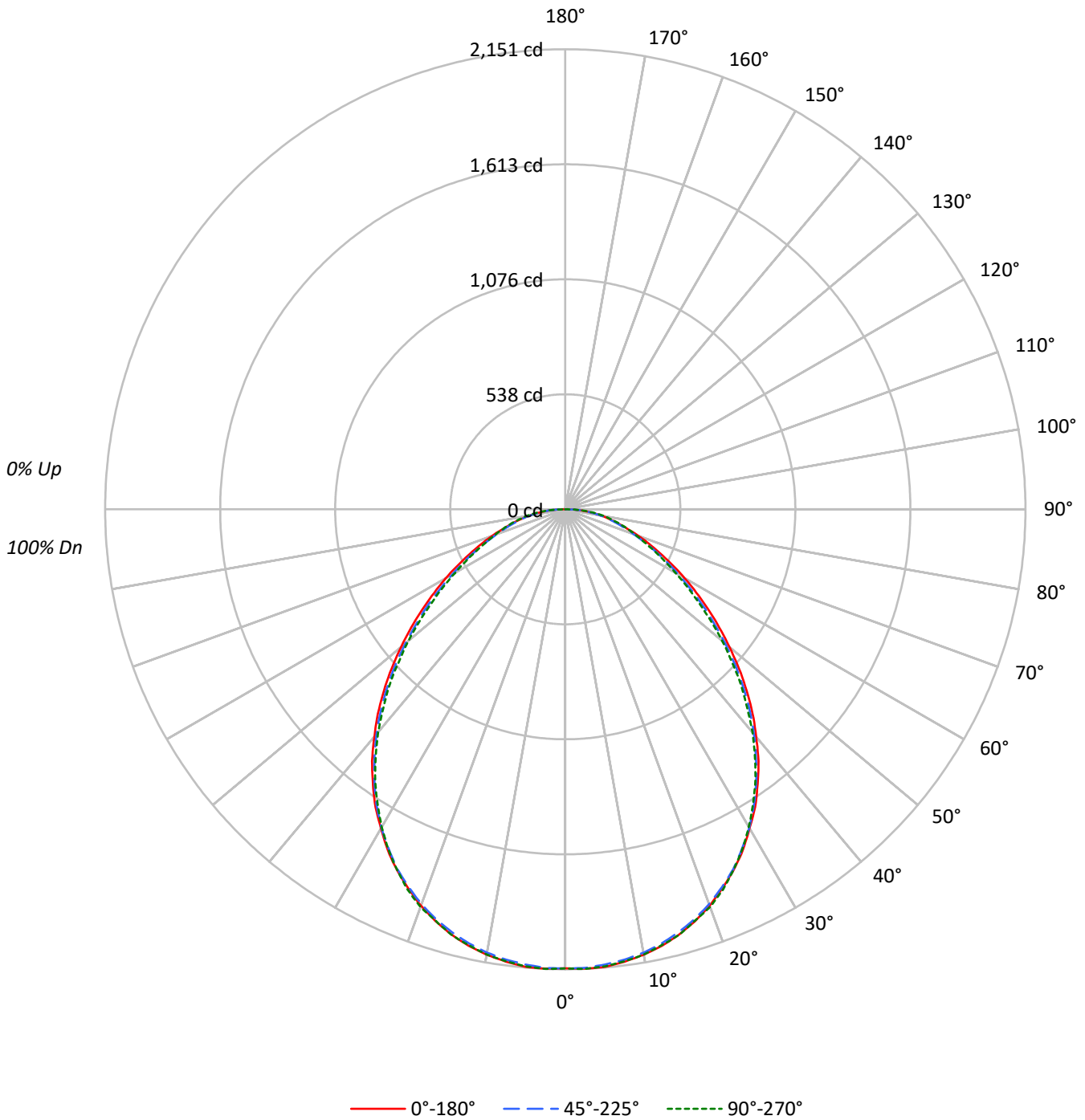
Lumens per Lamp: N/A
Luminaire Lumens: 5050.4 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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				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	100	100	100	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85	85	85	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72	72	72	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62	62	62	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54	54	54	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47	47	47	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42	42	42	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37	37	37	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33	33	33	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30	30	30	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28	28	28	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2888	2888	2888
5°	2901	2885	2897
10°	2889	2876	2888
15°	2867	2851	2869
20°	2825	2813	2834
25°	2764	2757	2762
30°	2676	2671	2665
35°	2575	2556	2545
40°	2438	2410	2390
45°	2280	2238	2211
50°	2096	2039	2004
55°	1911	1841	1787
60°	1736	1642	1600
65°	1563	1475	1450
70°	1431	1338	1376
75°	1338	1277	1370
80°	1328	1303	1431
85°	1352	1366	1561

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2280 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.1	4.0
10°-20°	577.5	11.4
20°-30°	853.2	16.9
30°-40°	970.0	19.2
40°-50°	905.8	17.9
50°-60°	704.4	13.9
60°-70°	467.4	9.3
70°-80°	270.5	5.4
80°-90°	98.4	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°	1633.9	32.4
0°-40°	2603.9	51.6
0°-60°	4214.1	83.4
0°-90°	5050.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5050.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2146	2146	2146	2146	2146	
5°	2148	2137	2136	2140	2145	204
15°	2058	2048	2047	2046	2060	580
25°	1862	1854	1857	1853	1861	856
35°	1568	1560	1556	1545	1550	979
45°	1198	1189	1176	1161	1162	923
55°	815	803	785	764	762	731
65°	491	476	463	455	456	491
75°	257	251	246	257	264	275
85°	88	86	88	100	101	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2146.4	2146.4	2146.4	2146.4	2146.4
2.5°	2149.6	2143.3	2146.4	2144.0	2151.1
5°	2148.0	2137.0	2136.1	2140.1	2144.9
7.5°	2133.0	2121.1	2123.5	2123.5	2131.4
10°	2114.8	2103.1	2104.7	2105.4	2114.1
12.5°	2090.4	2078.5	2079.4	2078.5	2087.2
15°	2058.1	2047.8	2046.9	2046.2	2059.5
17.5°	2018.5	2004.3	2009.2	2009.9	2016.9
20°	1972.7	1961.7	1964.9	1964.0	1979.0
22.5°	1918.3	1910.4	1912.7	1911.1	1925.4
25°	1861.5	1853.5	1856.8	1852.8	1860.7
27.5°	1797.5	1791.9	1788.9	1786.5	1791.9
30°	1722.6	1719.3	1719.3	1709.1	1715.4
32.5°	1651.5	1641.2	1641.2	1637.2	1633.2
35°	1567.9	1559.9	1555.9	1544.9	1549.6
37.5°	1484.1	1466.0	1464.4	1455.7	1455.7
40°	1387.8	1377.5	1371.9	1362.6	1360.9
42.5°	1296.3	1286.0	1276.4	1260.7	1257.5
45°	1198.4	1188.8	1176.2	1161.2	1161.9
47.5°	1101.3	1087.9	1076.0	1057.8	1055.4
50°	1001.1	991.5	974.2	958.4	957.5
52.5°	907.0	892.0	876.3	857.3	857.3
55°	814.7	802.8	784.7	764.2	761.8
57.5°	726.2	715.2	694.6	679.7	675.7
60°	645.0	629.1	610.1	597.7	594.4
62.5°	563.7	549.5	535.2	522.6	521.8
65°	491.0	476.0	463.3	454.7	455.6
67.5°	425.4	413.0	398.7	396.3	397.1
70°	363.8	350.5	340.2	345.8	349.8
72.5°	305.5	298.5	291.3	299.2	304.8
75°	257.3	251.0	245.6	256.6	263.6
77.5°	213.1	208.4	207.7	217.0	223.4
80°	171.4	165.8	168.1	179.1	184.7
82.5°	130.2	126.4	127.1	140.5	144.5
85°	87.6	86.1	88.5	100.2	101.1
87.5°	46.6	46.6	48.2	55.3	52.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)