

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: P798285

Luminaire Tested: 24GRSCT3-FGW080-UNV-MID-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294214)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24GRSCT3-FGW080-UNV-MID-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

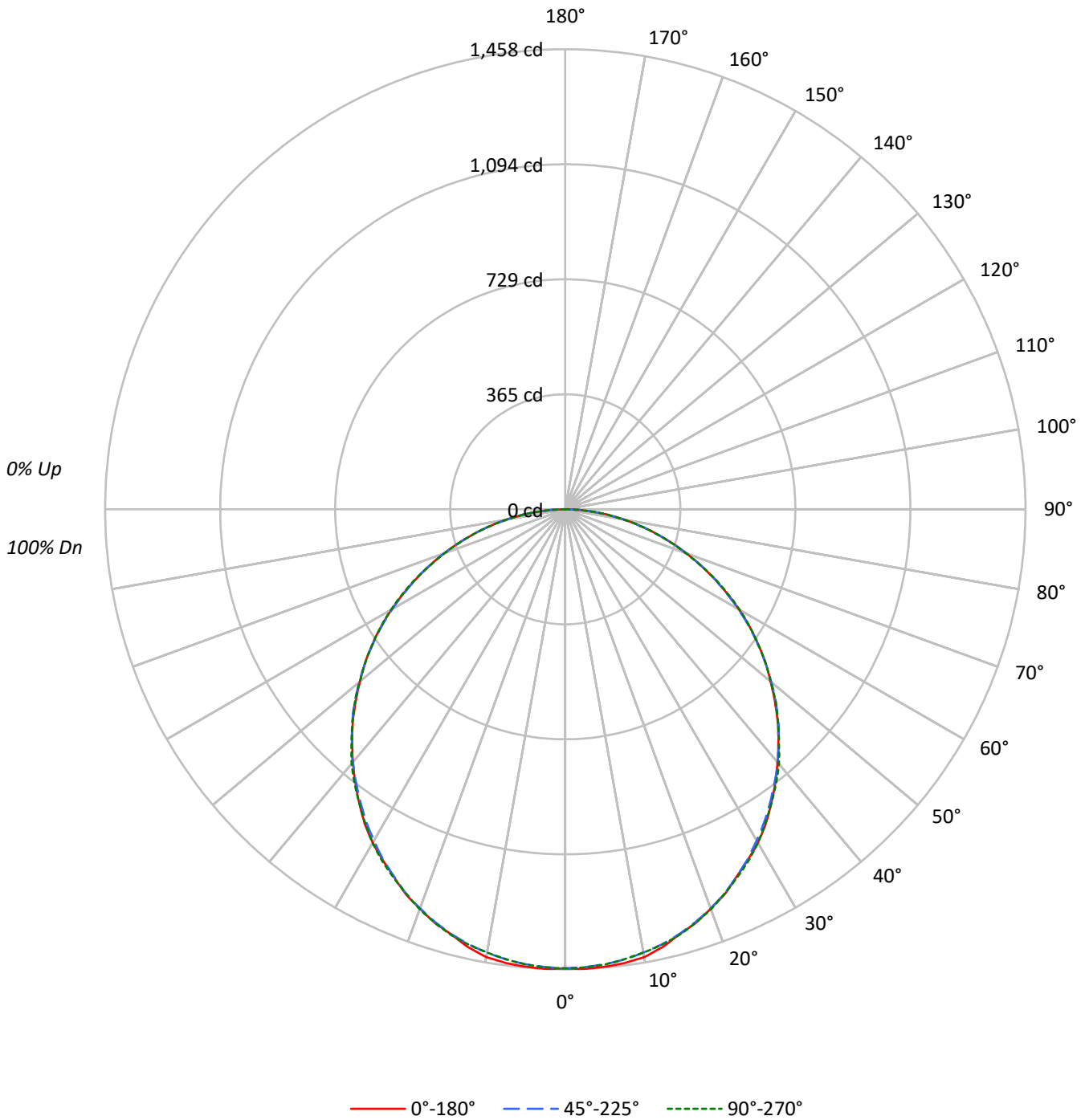
Lumens per Lamp: N/A
Luminaire Lumens: 4162.7 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.4
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				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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83	83	83	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69	69	69	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58	58	58	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49	49	49	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43	43	43	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37	37	37	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33	33	33	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29	29	29	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26	26	26	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24	24	24	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1958	1958	1958
5°	1965	1954	1956
10°	1969	1949	1949
15°	1943	1942	1946
20°	1929	1927	1931
25°	1908	1906	1912
30°	1896	1884	1897
35°	1869	1859	1869
40°	1838	1840	1850
45°	1812	1818	1814
50°	1778	1784	1779
55°	1750	1746	1750
60°	1709	1704	1720
65°	1657	1663	1669
70°	1603	1611	1599
75°	1547	1547	1547
80°	1460	1460	1476
85°	1349	1365	1317

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1818 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	3.3
10°-20°	393.3	9.4
20°-30°	592.6	14.2
30°-40°	709.8	17.1
40°-50°	734.8	17.7
50°-60°	666.2	16.0
60°-70°	516.5	12.4
70°-80°	314.1	7.5
80°-90°	97.7	2.3
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°	1123.5	27.0
0°-40°	1833.3	44.0
0°-60°	3234.3	77.7
0°-90°	4162.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4162.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1455	1455	1455	1455	1455	
5°	1455	1446	1447	1445	1448	138
15°	1395	1396	1394	1389	1397	394
25°	1285	1285	1284	1288	1288	593
35°	1138	1130	1132	1137	1138	712
45°	952	954	955	951	953	734
55°	746	742	744	747	746	667
65°	520	523	522	520	524	516
75°	298	296	298	296	298	314
85°	87	86	88	87	85	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1455.0	1455.0	1455.0	1455.0	1455.0
2.5°	1457.9	1451.9	1451.9	1450.0	1452.9
5°	1455.0	1446.1	1447.1	1445.1	1448.0
7.5°	1450.0	1438.2	1439.3	1437.2	1438.2
10°	1441.1	1427.5	1426.5	1425.4	1426.5
12.5°	1421.5	1413.7	1412.6	1410.8	1413.7
15°	1395.1	1395.9	1394.0	1389.1	1396.9
17.5°	1374.4	1373.4	1371.5	1366.6	1374.4
20°	1346.9	1347.9	1345.9	1344.0	1348.8
22.5°	1320.5	1317.4	1318.4	1317.4	1318.4
25°	1285.0	1285.0	1284.1	1288.0	1288.0
27.5°	1252.7	1248.8	1250.7	1254.6	1256.6
30°	1220.3	1210.4	1212.4	1216.4	1221.3
32.5°	1182.1	1172.2	1174.0	1178.0	1180.0
35°	1137.9	1130.0	1131.9	1136.8	1137.9
37.5°	1092.6	1087.7	1089.7	1093.7	1096.6
40°	1046.5	1044.5	1047.4	1046.5	1053.4
42.5°	999.4	998.4	1001.3	1001.3	1002.3
45°	952.3	954.2	955.2	951.3	953.2
47.5°	900.3	901.1	905.1	903.2	904.2
50°	849.3	848.2	852.2	853.2	850.1
52.5°	800.1	795.2	799.1	801.1	799.1
55°	746.2	742.2	744.1	747.0	746.2
57.5°	693.1	689.2	690.2	695.0	693.1
60°	635.2	634.2	633.2	637.1	639.2
62.5°	578.2	577.2	575.3	579.3	581.1
65°	520.4	523.3	522.2	520.4	524.3
67.5°	465.2	468.3	465.2	463.4	463.4
70°	407.4	410.3	409.4	407.4	406.4
72.5°	353.5	353.5	351.4	350.4	351.4
75°	297.5	296.5	297.5	296.5	297.5
77.5°	242.5	243.5	243.5	243.5	242.5
80°	188.4	188.4	188.4	189.4	190.5
82.5°	138.4	135.5	138.4	136.5	137.4
85°	87.4	86.4	88.4	87.4	85.3
87.5°	39.3	40.3	40.3	41.3	41.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)