

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: P798282

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798282
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-LOW-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

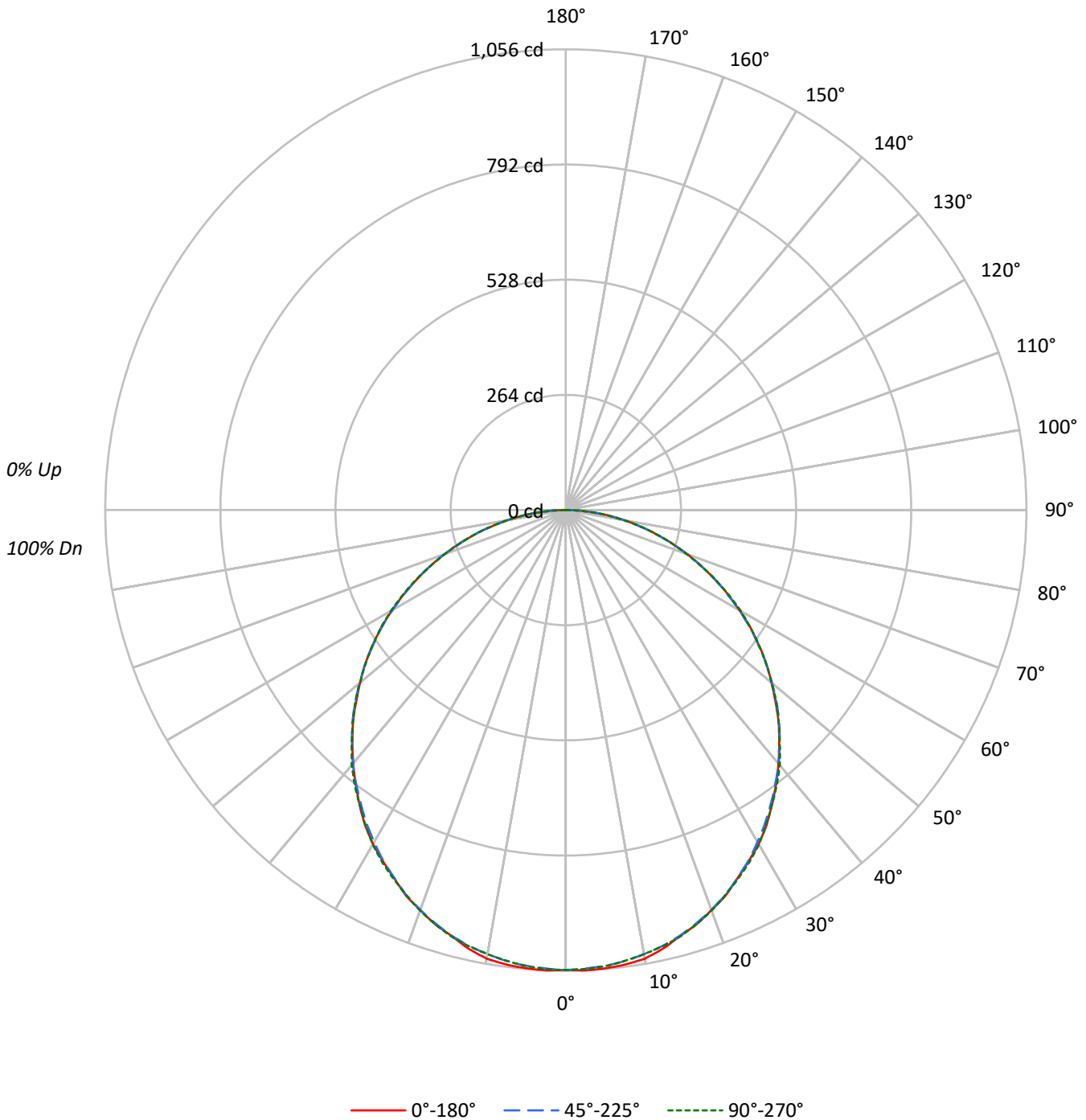
Lumens per Lamp: N/A
Luminaire Lumens: 3016.4 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24.3
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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	85	85	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	71	71	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	60	60	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	51	51	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	45	45	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	39	39	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	35	35	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1419	1419	1419
5°	1424	1416	1417
10°	1427	1412	1412
15°	1408	1407	1410
20°	1397	1396	1399
25°	1382	1381	1386
30°	1374	1365	1375
35°	1354	1347	1354
40°	1332	1333	1341
45°	1313	1317	1314
50°	1288	1293	1289
55°	1268	1265	1268
60°	1239	1235	1246
65°	1201	1205	1209
70°	1161	1167	1159
75°	1121	1121	1121
80°	1058	1058	1069
85°	977	990	954

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1317 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.7	3.3
10°-20°	285.0	9.4
20°-30°	429.5	14.2
30°-40°	514.4	17.1
40°-50°	532.4	17.7
50°-60°	482.8	16.0
60°-70°	374.3	12.4
70°-80°	227.6	7.5
80°-90°	70.8	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°	814.1	27.0
0°-40°	1328.5	44.0
0°-60°	2343.7	77.7
0°-90°	3016.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3016.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1054	1048	1049	1047	1049	100
15°	1011	1012	1010	1007	1012	286
25°	931	931	930	933	933	430
35°	824	819	820	824	824	516
45°	690	692	692	689	691	532
55°	541	538	539	541	541	483
65°	377	379	378	377	380	374
75°	216	215	216	215	216	228
85°	63	63	64	63	62	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1054.3	1054.3	1054.3	1054.3	1054.3
2.5°	1056.4	1052.1	1052.1	1050.7	1052.8
5°	1054.3	1047.9	1048.6	1047.1	1049.2
7.5°	1050.7	1042.2	1042.9	1041.5	1042.2
10°	1044.3	1034.4	1033.7	1032.9	1033.7
12.5°	1030.1	1024.4	1023.6	1022.3	1024.4
15°	1010.9	1011.5	1010.2	1006.6	1012.3
17.5°	995.9	995.2	993.8	990.3	995.9
20°	976.0	976.8	975.3	973.9	977.4
22.5°	956.9	954.6	955.4	954.6	955.4
25°	931.1	931.1	930.5	933.4	933.4
27.5°	907.8	904.9	906.3	909.1	910.6
30°	884.3	877.1	878.6	881.4	885.0
32.5°	856.6	849.4	850.8	853.6	855.1
35°	824.5	818.8	820.2	823.8	824.5
37.5°	791.8	788.2	789.7	792.5	794.6
40°	758.4	756.9	759.0	758.4	763.3
42.5°	724.2	723.5	725.6	725.6	726.3
45°	690.1	691.5	692.2	689.4	690.7
47.5°	652.4	653.0	655.8	654.5	655.2
50°	615.4	614.7	617.5	618.2	616.0
52.5°	579.8	576.2	579.0	580.5	579.0
55°	540.7	537.9	539.2	541.3	540.7
57.5°	502.2	499.4	500.1	503.6	502.2
60°	460.3	459.6	458.8	461.7	463.2
62.5°	419.0	418.3	416.9	419.7	421.1
65°	377.1	379.2	378.4	377.1	379.9
67.5°	337.1	339.4	337.1	335.8	335.8
70°	295.2	297.3	296.7	295.2	294.5
72.5°	256.1	256.1	254.6	253.9	254.6
75°	215.6	214.8	215.6	214.8	215.6
77.5°	175.7	176.5	176.5	176.5	175.7
80°	136.5	136.5	136.5	137.3	138.0
82.5°	100.3	98.2	100.3	98.9	99.6
85°	63.3	62.6	64.1	63.3	61.8
87.5°	28.4	29.2	29.2	29.9	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)