

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge or
Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: LUMIERE

Report Number: Test Report: SOMK990310050 LAB: CCSL

Luminaire Tested: **912-50PAR20-120-SP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: Test Report: SOMK990310050 LAB: CCSL
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 912-50PAR20-120-SP
Description:
Light Source: 50PAR20/HAL/SP16
Bare lamp data for 912
Ballast/Driver: -

Summary

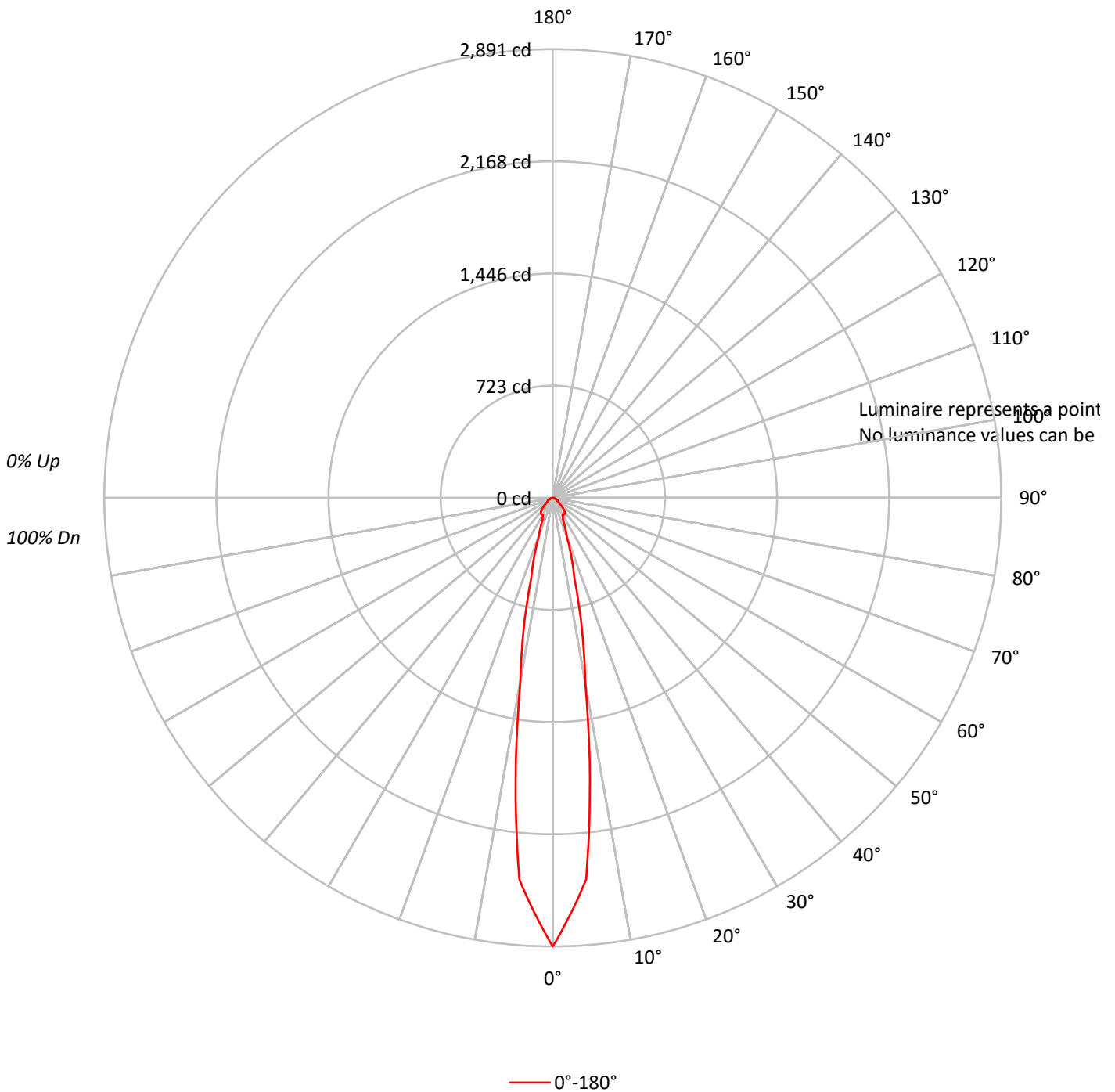
Lumens per Lamp: 550 (1 lamp)
Luminaire Lumens: 681.8 lumens
Efficiency: 124.0%
Efficacy: 13.6 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.31 / 0.33
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
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: 25 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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	148	148	148	148	144	144	144	144	138	138	138	132	132	132	126	126	126	124			
1	140	136	132	129	136	133	130	127	128	125	123	123	121	119	119	117	116	114			
2	132	125	120	115	129	123	118	114	119	115	111	115	112	109	112	109	107	105			
3	125	117	110	105	123	115	109	104	112	107	103	109	104	101	106	102	99	97			
4	119	110	102	97	117	108	102	96	105	100	95	103	98	94	101	96	93	91			
5	114	103	96	91	112	102	95	90	100	94	89	98	93	89	96	91	88	86			
6	109	98	91	85	107	97	90	85	95	89	84	93	88	84	92	87	83	81			
7	104	93	86	81	103	92	85	81	91	85	80	89	84	80	88	83	79	78			
8	100	89	82	77	99	88	82	77	87	81	77	86	80	76	85	80	76	74			
9	97	85	78	74	95	85	78	74	84	78	73	83	77	73	82	77	73	71			
10	93	82	75	71	92	82	75	71	81	75	71	80	74	70	79	74	70	69			

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	195.2	28.6	35.5
10°-20°	169.5	24.9	30.8
20°-30°	79.1	11.6	14.4
30°-40°	79.7	11.7	14.5
40°-50°	69.2	10.1	12.6
50°-60°	39.3	5.8	7.1
60°-70°	25.2	3.7	4.6
70°-80°	15.3	2.2	2.8
80°-90°	9.3	1.4	1.7
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	443.8	65.1	80.7
0°-40°	523.5	76.8	95.2
0°-60°	632.0	92.7	114.9
0°-90°	681.8	100.0	124.0
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	681.8	100.0	124.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2891	
5°	2467	195
15°	541	169
25°	154	79
35°	131	80
45°	90	69
55°	40	39
65°	24	25
75°	14	15
85°	9	9
90°	4	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2891
5°	2467
10°	1200
15°	541
20°	262
25°	154
30°	126
35°	131
40°	120
45°	90
50°	60
55°	40
60°	36
65°	24
70°	18
75°	14
80°	12
85°	9
90°	4

(END OF REPORT)