

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:

Luminaire Tested: **612-50PAR20-120-NSP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number:
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 612-50PAR20-120-NSP
Description:
Light Source: 50PAR/HIR/NSP9°
BARE LAMP DATA FOR 612
Ballast/Driver: -

Summary

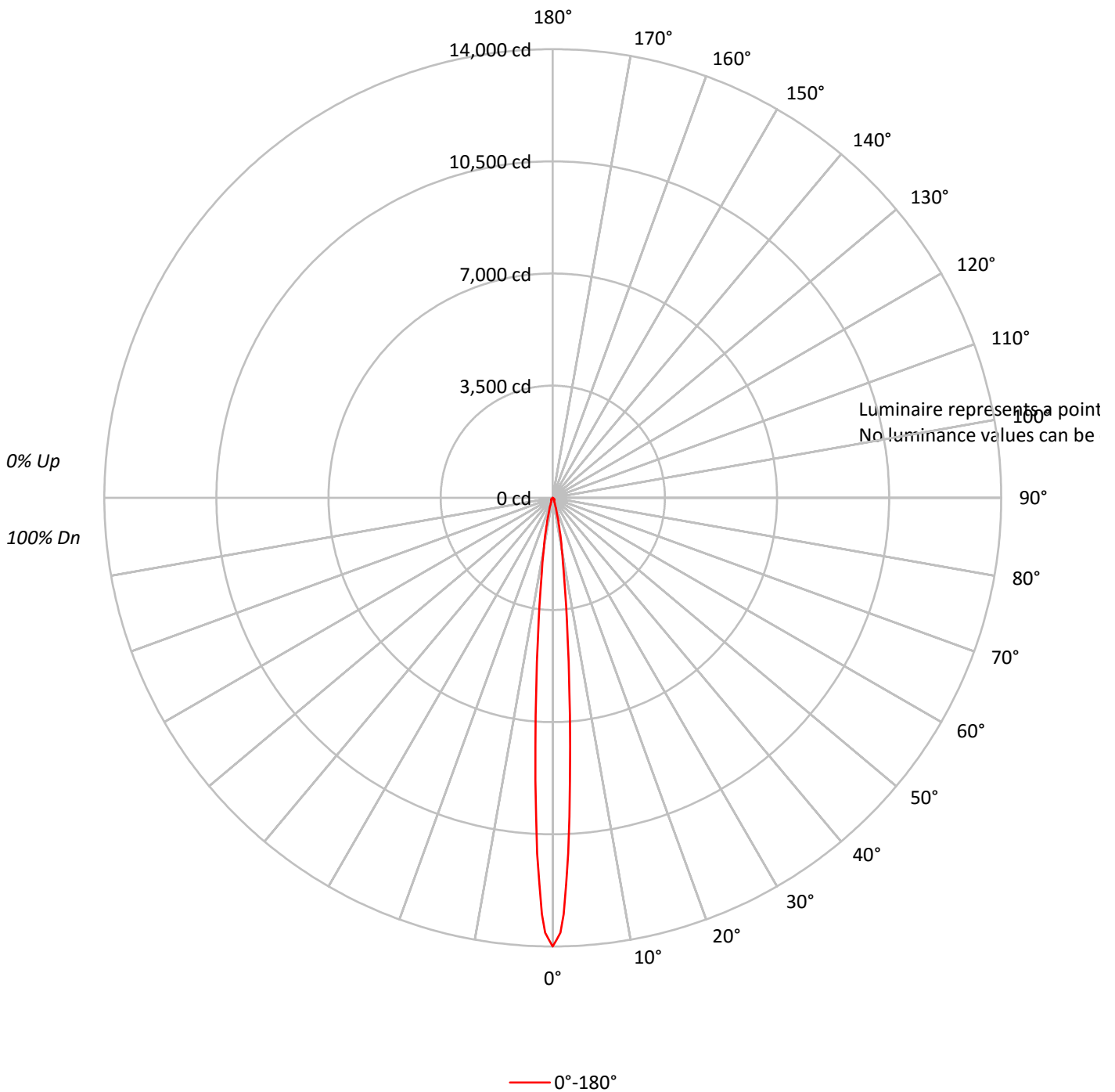
Lumens per Lamp: 850 (1 lamp)
Luminaire Lumens: 756.6 lumens
Efficiency: 89.0%
Efficacy: -
Spacing Criteria (0/90/45): 0.15 / 0.15 / 0.17
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

Input Watts (W): 0
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	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	106	106	106	106	103	103	103	103	99	99	99		95	95	95		91	91	91	89
1	102	101	99	97	100	99	97	96	95	94	93		92	91	90		89	88	88	86
2	99	96	93	91	97	95	92	90	92	90	88		89	88	86		87	86	85	83
3	96	92	89	86	95	91	88	86	89	86	84		87	85	83		85	83	82	81
4	93	89	85	83	92	88	85	82	86	83	81		84	82	80		83	81	80	79
5	91	86	82	80	90	85	82	79	84	81	79		82	80	78		81	79	77	76
6	89	83	80	77	88	83	79	77	82	79	77		80	78	76		79	77	76	75
7	86	81	78	75	86	81	77	75	80	77	75		79	76	74		78	76	74	73
8	85	79	76	73	84	79	76	73	78	75	73		77	75	73		76	74	72	72
9	83	77	74	72	82	77	74	72	76	74	72		76	73	71		75	73	71	70
10	81	76	73	71	81	76	73	70	75	72	70		74	72	70		74	72	70	69

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	438.0	57.9	51.5
10°-20°	164.1	21.7	19.3
20°-30°	47.7	6.3	5.6
30°-40°	40.4	5.3	4.7
40°-50°	46.7	6.2	5.5
50°-60°	13.5	1.8	1.6
60°-70°	4.0	0.5	0.5
70°-80°	2.1	0.3	0.2
80°-90°	0.3	0.0	0.0
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°	649.7	85.9	76.4
0°-40°	690.1	91.2	81.2
0°-60°	750.2	99.2	88.3
0°-90°	756.6	100.0	89.0
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°	756.6	100.0	89.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14000	
5°	5840	438
15°	512	164
25°	97	48
35°	63	40
45°	74	47
55°	10	13
65°	4	4
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	14000
1.25°	13469
2.5°	11108
3.75°	8262
5°	5840
6.25°	4101
7.5°	2953
8.75°	2161
10°	1603
12.5°	911
15°	512
17.5°	285
20°	168
22.5°	121
25°	97
27.5°	83
30°	74
35°	63
40°	58
45°	74
50°	36
55°	10
60°	5
65°	4
70°	3
75°	2
80°	1
85°	0
90°	0

(END OF REPORT)