

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: LVE02191 LAB: "EHV"

Luminaire Tested: **710-MH39PAR20-FL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: Test Report: LVE02191 LAB: "EHV"
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 710-MH39PAR20-FL
Description:
Light Source: CDM-R PAR20 35W FL /830
BARE LAMP DATA FOR 710
Ballast/Driver: -

Summary

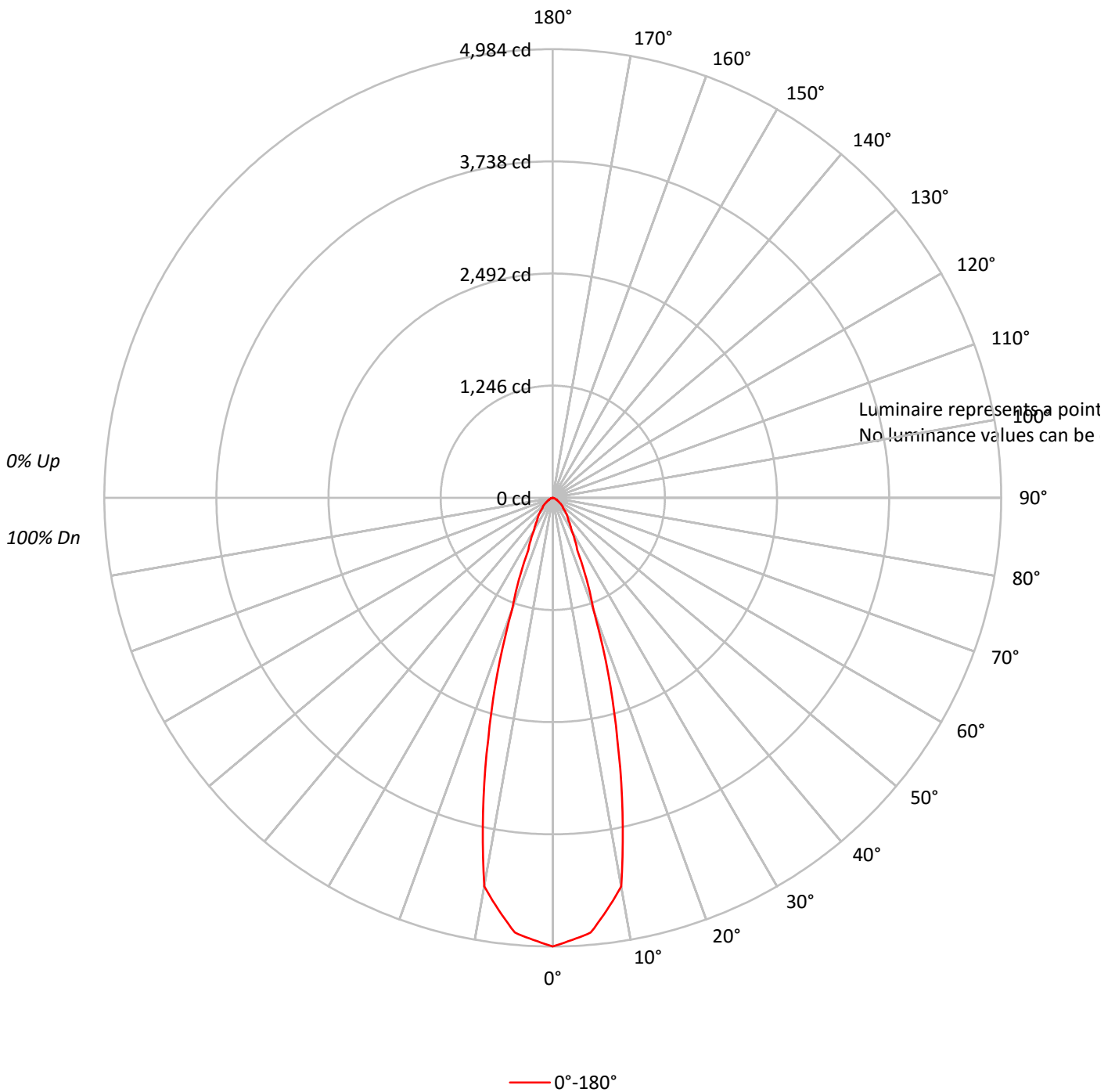
Lumens per Lamp: 2000 (1 lamp)
Luminaire Lumens: 2028.8 lumens
Efficiency: 101.4%
Efficacy: 45.1 lumens/watt
Spacing Criteria (0/90/45): 0.54 / 0.54 / 0.5
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

Input Watts (W): 45
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



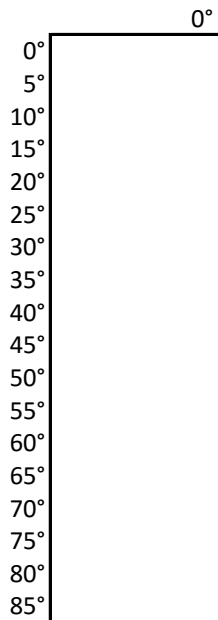


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	121	121	121	121	118	118	118	118	113	113	113		108	108	108		104	104	104	101
1	115	113	110	108	113	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	105	101	98	108	103	100	97	100	97	95		97	95	93		94	92	91	89
3	105	99	94	90	103	97	93	89	95	91	88		92	89	87		90	87	85	84
4	100	93	88	84	98	92	87	83	90	86	82		88	84	81		86	83	80	79
5	96	88	83	79	94	87	82	78	85	81	77		84	80	77		82	79	76	75
6	92	84	78	74	90	83	78	74	81	77	73		80	76	73		79	75	72	71
7	88	80	74	70	87	79	74	70	78	73	70		77	72	69		76	72	69	68
8	85	76	71	67	84	76	70	67	75	70	67		74	69	66		73	69	66	65
9	82	73	68	64	81	73	67	64	72	67	64		71	67	64		70	66	63	62
10	79	70	65	61	78	70	65	61	69	64	61		68	64	61		68	64	61	60

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	447.8	22.1	22.4
10°-20°	762.0	37.6	38.1
20°-30°	342.3	16.9	17.1
30°-40°	196.9	9.7	9.8
40°-50°	136.0	6.7	6.8
50°-60°	83.1	4.1	4.2
60°-70°	41.5	2.0	2.1
70°-80°	13.7	0.7	0.7
80°-90°	5.5	0.3	0.3
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°	1552.1	76.5	77.6
0°-40°	1749.0	86.2	87.4
0°-60°	1968.1	97.0	98.4
0°-90°	2028.8	100.0	101.4
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°	2028.8	100.0	101.4

CANDELA DISTRIBUTION:

	0°	Flux
0°	4984	
5°	4848	448
15°	2773	762
25°	649	342
35°	302	197
45°	165	136
55°	89	83
65°	44	42
75°	11	14
85°	5	5
90°	3	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4984
5°	4848
10°	4384
15°	2773
20°	1322
25°	649
30°	422
35°	302
40°	239
45°	165
50°	138
55°	89
60°	57
65°	44
70°	23
75°	11
80°	7
85°	5
90°	3

(END OF REPORT)