

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: RSA

Report Number: P219578

Luminaire Tested: **MRZ-1-REC-X-1H-L30-97-NFL-UNV-X-STD-HEX**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14871)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: RSA
Catalog Number: MRZ-1-REC-X-1H-L30-97-NFL-UNV-X-STD-HEX
Description: MRZ INTEGRAL LED DOWNLIGHT
25 DEGREE NARROW FLOOD OPTIC WITH HEX LOUVER, LIGHT LEVEL 1
Light Source: (1) 3000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 354.4 lumens
Efficiency: N/A
Efficacy: 52.1 lumens/watt
Spacing Criteria (0/90/45): 0.36 / 0.36 / 0.35
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

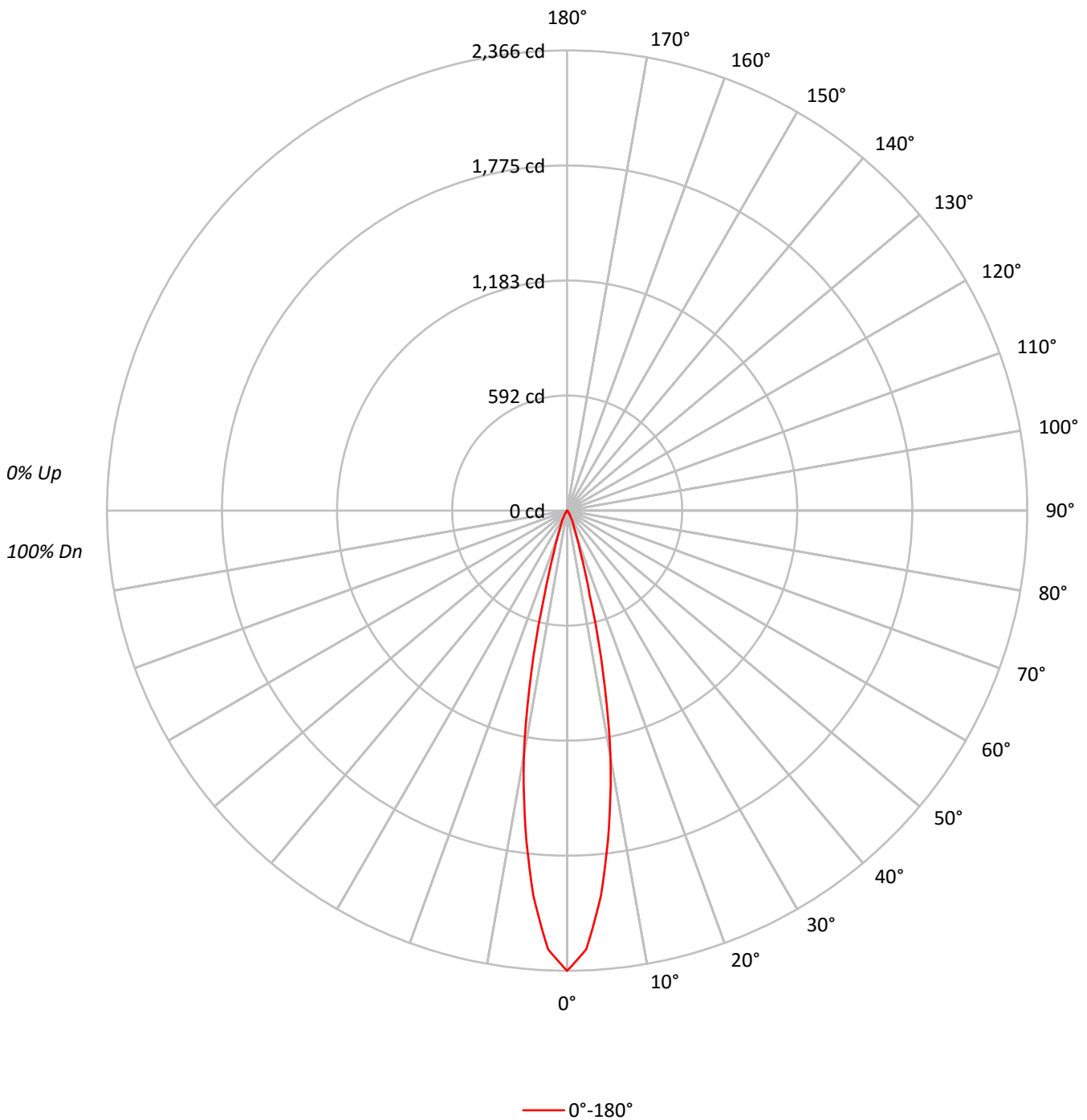
Input Watts (W): 6.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97	97	97
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95	95	95
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92	92	92
4	106	101	98	95	105	100	97	94	98	95	93	96	94	92	95	93	91	90	90	90
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88	88	88
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86	86	86
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84	84	84
8	96	91	87	84	95	90	87	84	89	86	84	88	86	84	88	85	83	82	82	82
9	94	88	85	82	94	88	85	82	87	84	82	87	84	82	86	83	82	81	81	81
10	92	86	83	81	92	86	83	81	86	82	80	85	82	80	84	82	80	79	79	79

AVERAGE LUMINANCE (cd/sqm):

0°	
0°	1167484
5°	984189
10°	643022
15°	226788
20°	73086
25°	37889
30°	17661
35°	8131
40°	3736
45°	2023
50°	921
55°	516
60°	592
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	47.2
10°-20°	141.4	39.9
20°-30°	33.2	9.4
30°-40°	9.3	2.6
40°-50°	2.3	0.7
50°-60°	0.7	0.2
60°-70°	0.2	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	341.8	96.4
0°-40°	351.1	99.1
0°-60°	354.2	99.9
0°-90°	354.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	354.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2366	
5°	1987	167
15°	444	141
25°	70	33
35°	14	9
45°	3	2
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2366.3
2.5°	2256.9
5°	1987.2
7.5°	1645.6
10°	1283.5
12.5°	852.9
15°	444.0
17.5°	229.3
20°	139.2
22.5°	96.5
25°	69.6
27.5°	48.0
30°	31.0
32.5°	20.5
35°	13.5
37.5°	8.8
40°	5.8
42.5°	4.1
45°	2.9
47.5°	1.8
50°	1.2
52.5°	1.2
55°	0.6
57.5°	0.6
60°	0.6
62.5°	0.6
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)