

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: P219576

Luminaire Tested: **MRZ-1-REC-X-1H-L40-80-NFL-UNV-X-STD-HEX**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219576
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-L40-80-NFL-UNV-X-STD-HEX
Description: MRZ INTEGRAL LED DOWNLIGHT
25 DEGREE NARROW FLOOD OPTIC WITH HEX LOUVER, LIGHT LEVEL 1
Light Source: (1) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 493.5 lumens
Efficiency: N/A
Efficacy: 72.6 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

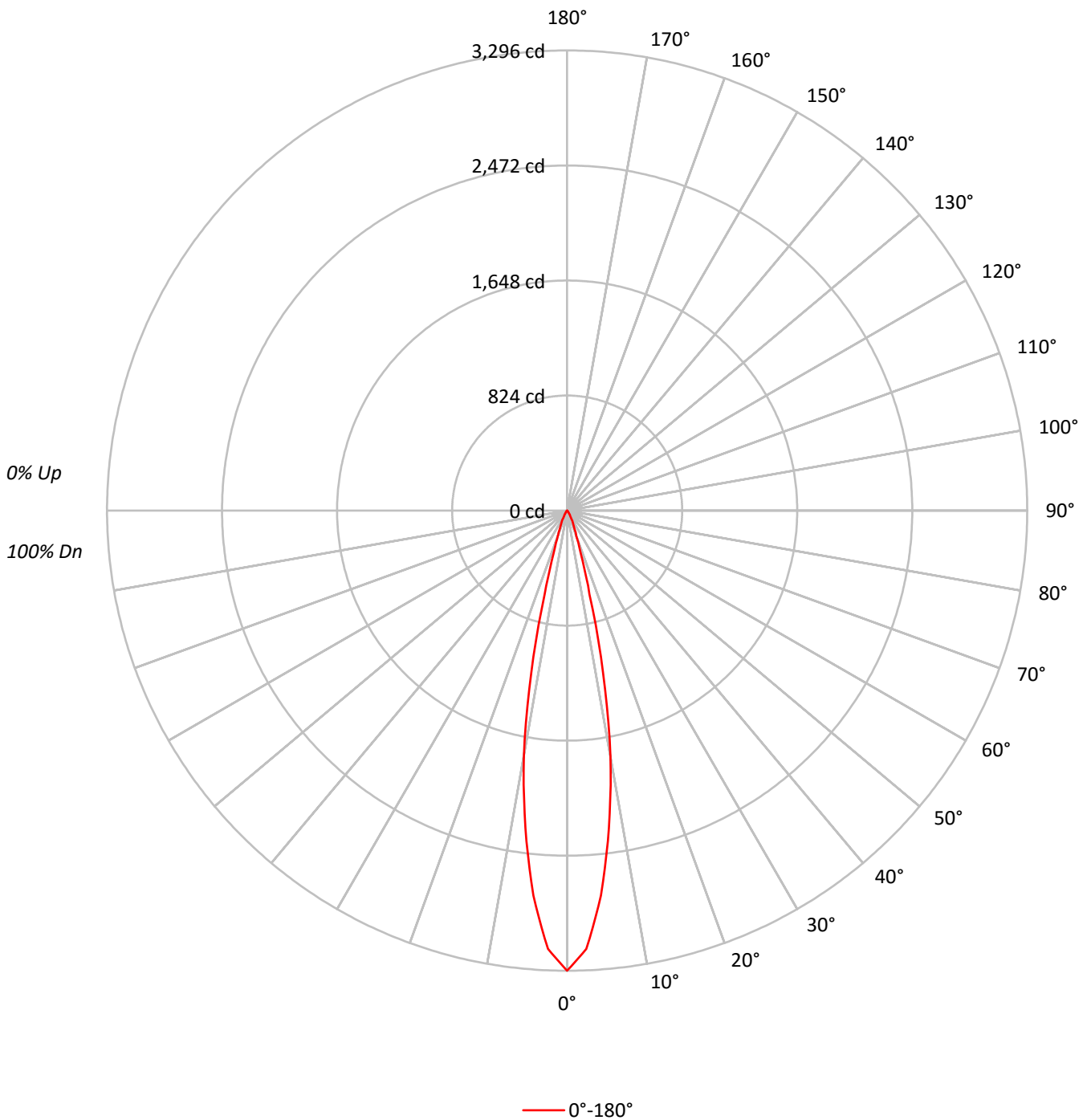
Input Watts (W): 6.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1625932
5°	1370693
10°	895521
15°	315869
20°	101806
25°	52751
30°	24611
35°	11263
40°	5217
45°	2861
50°	1228
55°	688
60°	789
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.8	47.2
10°-20°	197.0	39.9
20°-30°	46.3	9.4
30°-40°	12.9	2.6
40°-50°	3.2	0.7
50°-60°	1.0	0.2
60°-70°	0.3	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°	476.0	96.5
0°-40°	489.0	99.1
0°-60°	493.2	99.9
0°-90°	493.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	493.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3296	
5°	2768	233
15°	618	197
25°	97	46
35°	19	13
45°	4	3
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3295.5
2.5°	3143.1
5°	2767.6
7.5°	2291.8
10°	1787.5
12.5°	1187.8
15°	618.4
17.5°	319.4
20°	193.9
22.5°	134.4
25°	96.9
27.5°	66.8
30°	43.2
32.5°	28.5
35°	18.7
37.5°	12.2
40°	8.1
42.5°	5.7
45°	4.1
47.5°	2.4
50°	1.6
52.5°	1.6
55°	0.8
57.5°	0.8
60°	0.8
62.5°	0.8
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)