

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: P226120

Luminaire Tested: **MRZ-1-REC-X-1-L30-80-NFL-UNV-X-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14859)
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-1-L30-80-NFL-UNV-X-STD
Description: MRZ INTEGRAL LED DOWNLIGHT
25 DEGREE NARROW FLOOD OPTIC, LIGHT LEVEL 1
Light Source: (1) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

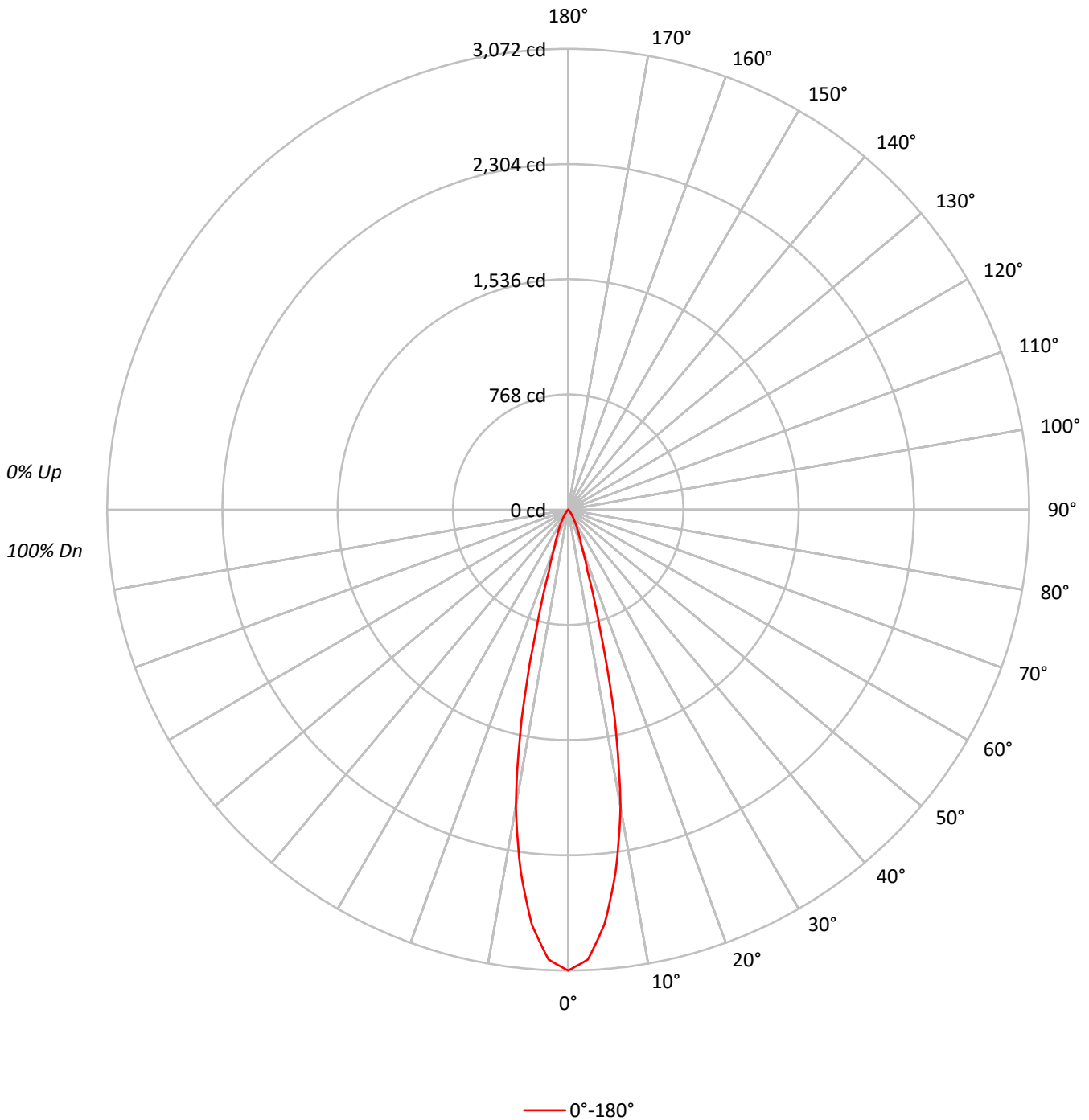
Lumens per Lamp: N/A
Luminaire Lumens: 593.9 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 0.41 / 0.41 / 0.37
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 5.4
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	111	109	113	111	109	108	107	106	104	104	103	102	101	101	100	99	98	98	97	96	95	95
2	111	108	105	102	109	106	104	101	103	101	99	99	100	99	97	97	98	96	95	95	94	93	92	92
3	108	103	100	97	106	102	99	96	100	97	95	95	97	95	93	93	95	93	92	92	91	90	89	89
4	105	99	96	93	103	98	95	92	96	93	91	91	95	92	90	90	93	91	89	89	88	87	86	86
5	102	96	92	89	100	95	91	89	94	90	88	88	92	89	87	87	91	88	86	86	85	84	83	83
6	99	93	89	86	98	92	88	86	91	88	85	85	90	87	85	85	88	86	84	84	83	82	81	81
7	96	90	86	83	95	89	86	83	88	85	83	83	87	84	82	82	86	84	82	82	81	80	79	79
8	94	87	83	81	93	87	83	81	86	83	80	80	85	82	80	80	84	82	80	80	79	78	77	77
9	91	85	81	78	91	85	81	78	84	80	78	78	83	80	78	78	82	80	78	78	77	76	75	75
10	89	83	79	76	89	83	79	76	82	78	76	76	81	78	76	76	81	78	76	76	75	74	73	73

AVERAGE LUMINANCE (cd/sqm):

0°	
0°	1515859
5°	1374358
10°	1006490
15°	410364
20°	139977
25°	81821
30°	45747
35°	24574
40°	13139
45°	8512
50°	3608
55°	2322
60°	1283
65°	817
70°	1010
75°	1334
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.2	40.4
10°-20°	242.8	40.9
20°-30°	70.9	11.9
30°-40°	27.2	4.6
40°-50°	9.1	1.5
50°-60°	2.5	0.4
60°-70°	0.9	0.2
70°-80°	0.5	0.1
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°	553.8	93.2
0°-40°	581.0	97.8
0°-60°	592.6	99.8
0°-90°	593.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	593.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3072	
5°	2775	240
15°	803	243
25°	150	71
35°	41	27
45°	12	9
55°	3	2
65°	1	1
75°	1	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3072.4
2.5°	3001.6
5°	2775.0
7.5°	2429.4
10°	2009.0
12.5°	1435.4
15°	803.4
17.5°	426.5
20°	266.6
22.5°	198.0
25°	150.3
27.5°	112.2
30°	80.3
32.5°	57.8
35°	40.8
37.5°	28.6
40°	20.4
42.5°	15.6
45°	12.2
47.5°	7.5
50°	4.7
52.5°	3.4
55°	2.7
57.5°	2.1
60°	1.3
62.5°	1.3
65°	0.7
67.5°	0.7
70°	0.7
72.5°	0.7
75°	0.7
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)