

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: P226159

Luminaire Tested: **MRZ-1-REC-X-1-L35-97-NFL-UNV-X-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226159
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-L35-97-NFL-UNV-X-STD
Description: MRZ INTEGRAL LED DOWNLIGHT
25 DEGREE NARROW FLOOD OPTIC, LIGHT LEVEL 1
Light Source: (1) 3500K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 476.5 lumens
Efficiency: N/A
Efficacy: 88.2 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

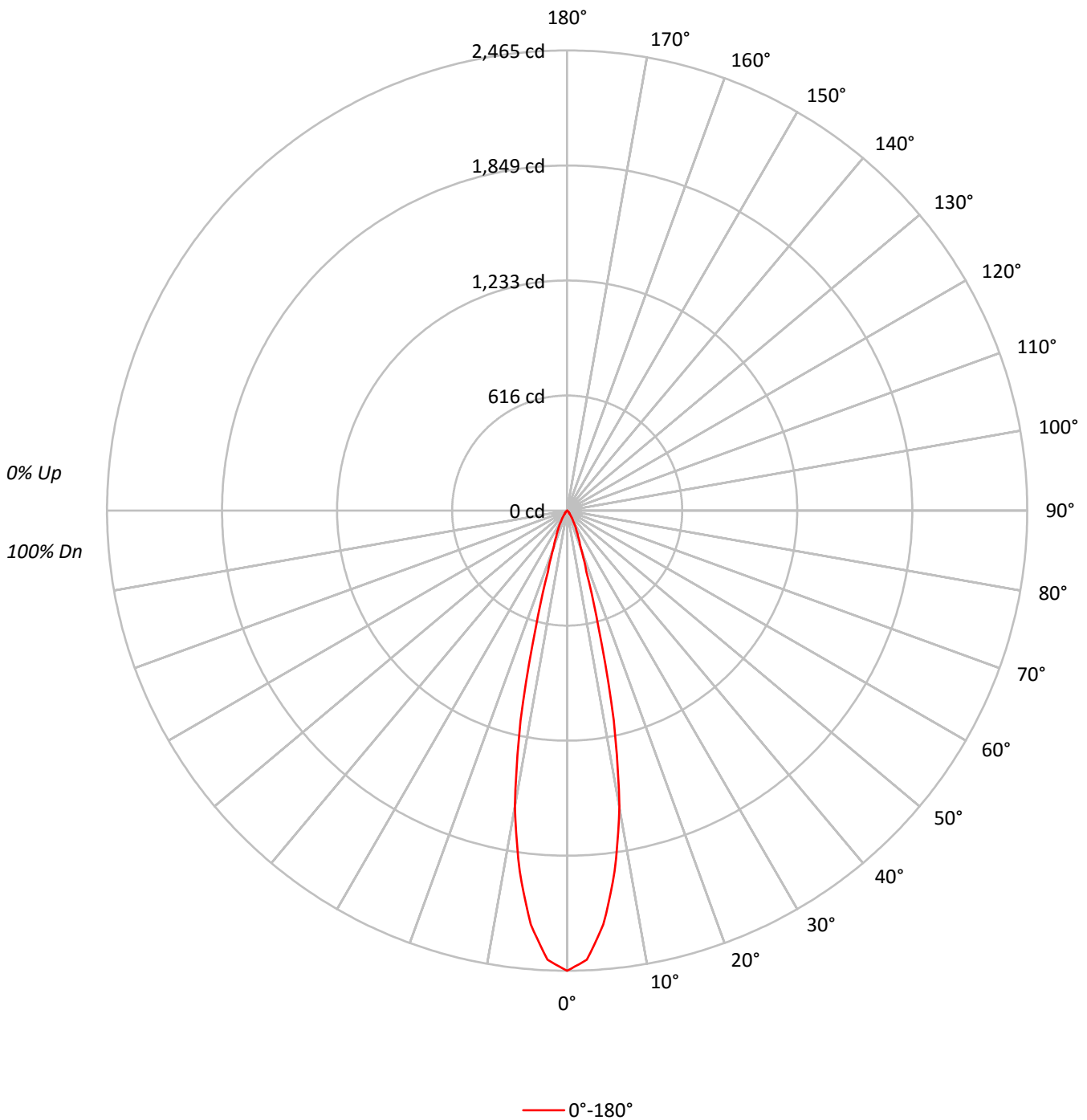
Input Watts (W): 5.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	79	76	76	81	78	76	76	81	78	76	76	75	74	73	73

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1216230
5°	1102656
10°	807497
15°	329251
20°	112359
25°	65653
30°	36746
35°	19756
40°	10498
45°	6838
50°	2917
55°	1806
60°	1085
65°	584
70°	721
75°	953
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.7	40.4
10°-20°	194.8	40.9
20°-30°	56.9	11.9
30°-40°	21.8	4.6
40°-50°	7.3	1.5
50°-60°	2.0	0.4
60°-70°	0.7	0.1
70°-80°	0.3	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°	444.4	93.3
0°-40°	466.2	97.8
0°-60°	475.5	99.8
0°-90°	476.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	476.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2465	
5°	2226	193
15°	645	195
25°	121	57
35°	33	22
45°	10	7
55°	2	2
65°	0	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2465.1
2.5°	2408.3
5°	2226.4
7.5°	1949.2
10°	1611.8
12.5°	1151.7
15°	644.6
17.5°	342.3
20°	214.0
22.5°	158.8
25°	120.6
27.5°	90.1
30°	64.5
32.5°	46.4
35°	32.8
37.5°	22.9
40°	16.3
42.5°	12.6
45°	9.8
47.5°	6.0
50°	3.8
52.5°	2.8
55°	2.1
57.5°	1.6
60°	1.1
62.5°	1.1
65°	0.5
67.5°	0.5
70°	0.5
72.5°	0.5
75°	0.5
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)