

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: P219849

Luminaire Tested: **MRZ-1-REC-X-4-L30-97-WFL-UNV-X-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14880)
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-4-L30-97-WFL-UNV-X-STD
Description: MRZ INTEGRAL LED DOWNLIGHT
55 DEGREE WIDE FLOOD OPTIC, LIGHT LEVEL 4
Light Source: (1) 3000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1142.3 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

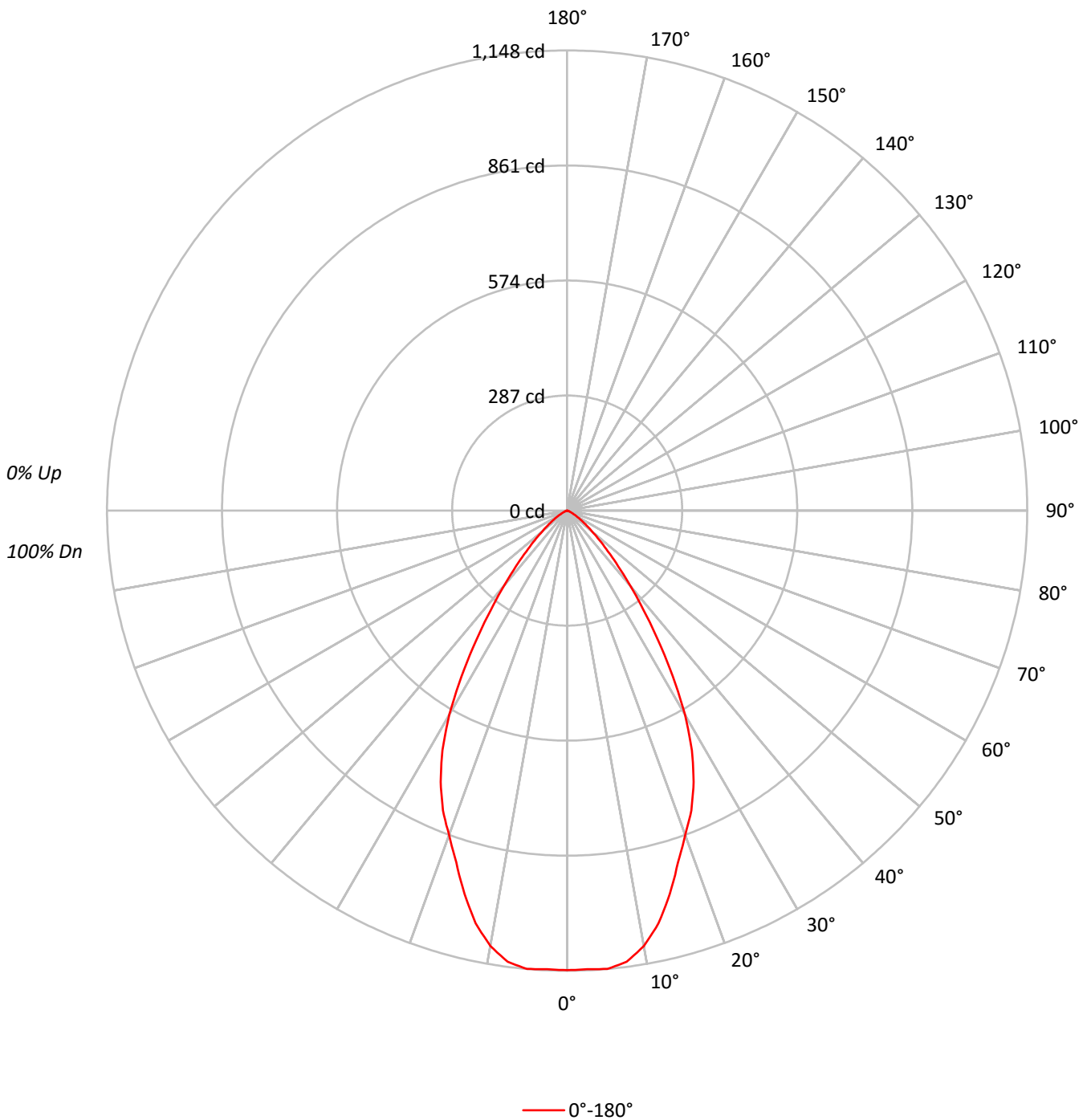
Input Watts (W): 15.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	110	108	105	111	108	106	103	104	102	100		100	99	97		97	96	94	93
2	107	102	97	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83		88	84	81		85	82	80	78
4	95	87	81	77	94	86	81	76	84	79	76		82	78	75		80	77	74	72
5	90	81	75	70	88	80	74	70	78	73	69		77	72	69		75	71	68	67
6	85	76	69	65	84	75	69	65	73	68	64		72	67	64		71	66	63	62
7	81	71	64	60	79	70	64	60	69	63	59		68	63	59		66	62	59	57
8	76	66	60	56	75	66	60	56	65	59	55		64	59	55		63	58	55	53
9	73	62	56	52	71	62	56	52	61	55	52		60	55	51		59	55	51	50
10	69	59	53	49	68	58	52	48	57	52	48		57	52	48		56	51	48	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	565660
5°	568514
10°	552693
15°	505625
20°	452220
25°	406437
30°	334531
35°	238332
40°	157602
45°	100475
50°	62249
55°	38450
60°	22103
65°	11441
70°	6059
75°	5338
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.2	9.5
10°-20°	276.0	24.2
20°-30°	338.2	29.6
30°-40°	249.5	21.8
40°-50°	115.4	10.1
50°-60°	41.8	3.7
60°-70°	10.8	0.9
70°-80°	2.4	0.2
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°	722.3	63.2
0°-40°	971.8	85.1
0°-60°	1129.0	98.8
0°-90°	1142.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1142.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1146	
5°	1148	108
15°	990	276
25°	747	338
35°	396	249
45°	144	115
55°	45	42
65°	10	11
75°	3	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1146.5
2.5°	1145.1
5°	1147.9
7.5°	1135.3
10°	1103.2
12.5°	1054.2
15°	989.9
17.5°	920.0
20°	861.3
22.5°	809.5
25°	746.6
27.5°	673.9
30°	587.2
32.5°	490.8
35°	395.7
37.5°	313.2
40°	244.7
42.5°	188.8
45°	144.0
47.5°	109.1
50°	81.1
52.5°	60.1
55°	44.7
57.5°	32.2
60°	22.4
62.5°	15.4
65°	9.8
67.5°	5.6
70°	4.2
72.5°	2.8
75°	2.8
77.5°	1.4
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)