

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: P219725

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219725  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14875)  
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-FL-UNV-X-STD  
Description: MRZ INTEGRAL LED DOWNLIGHT  
40 DEGREE 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: 1227.2 lumens  
Efficiency: N/A  
Efficacy: 77.7 lumens/watt  
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.66  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

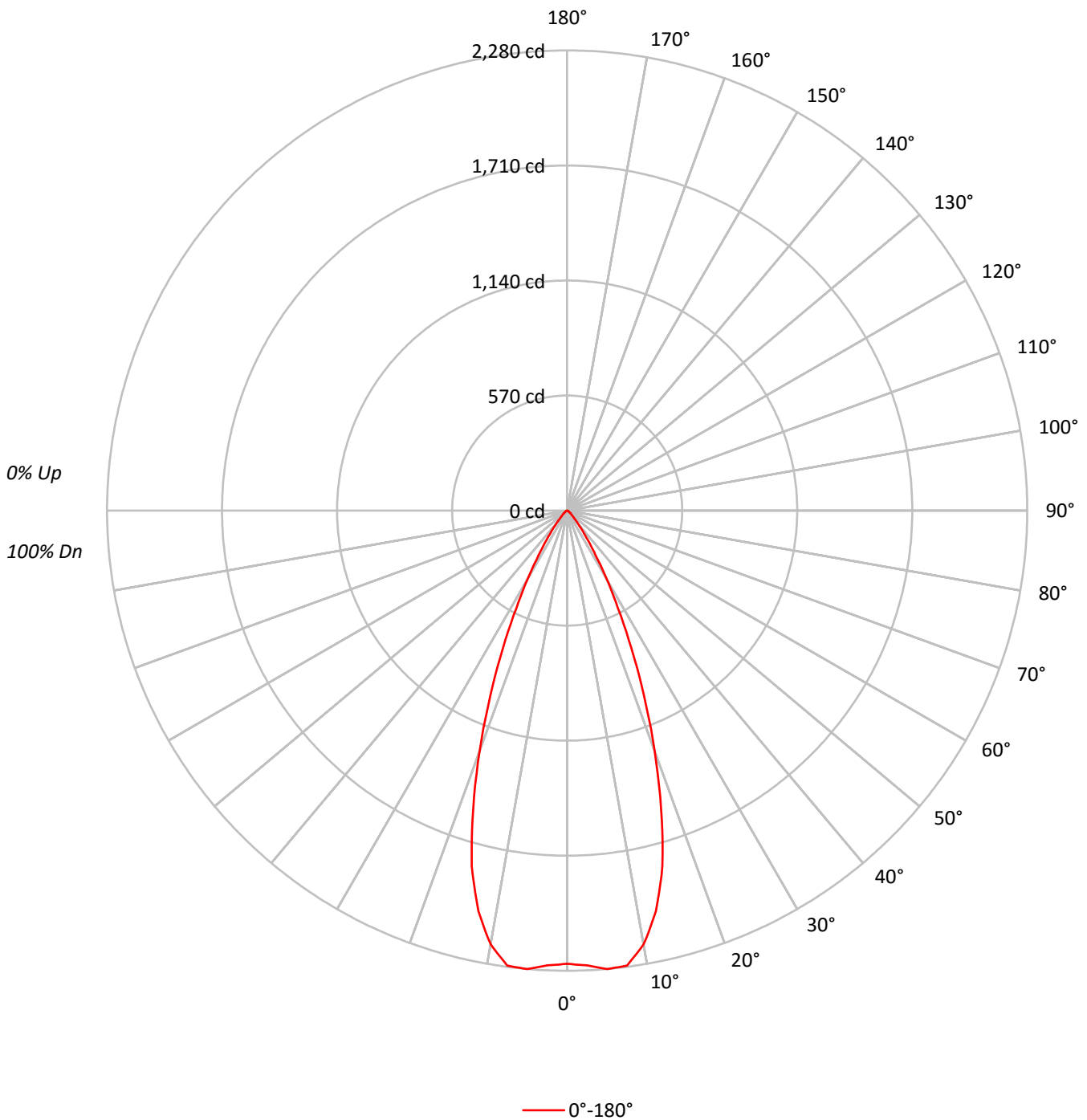
Input Watts (W): 15.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	112	109	107	112	110	108	106	106	104	102		102	101	99		98	97	97	95
2	109	105	101	98	107	103	100	97	100	98	95		97	95	93		95	93	91	90
3	105	99	95	91	103	98	94	91	95	92	89		93	90	88		91	88	86	85
4	100	94	89	85	99	93	88	85	91	87	84		89	86	83		87	84	82	81
5	96	89	84	80	95	88	83	80	86	82	79		85	81	79		83	80	78	77
6	92	85	80	76	91	84	79	76	83	78	75		81	77	75		80	77	74	73
7	89	81	76	72	88	80	75	72	79	75	71		78	74	71		77	73	71	69
8	85	77	72	68	84	77	72	68	76	71	68		75	71	68		74	70	67	66
9	82	74	69	65	81	73	68	65	72	68	65		72	68	65		71	67	64	63
10	79	71	66	62	78	70	65	62	69	65	62		69	65	62		68	64	62	61

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1107884
5°	1129400
10°	1093462
15°	931977
20°	665073
25°	408724
30°	220647
35°	106126
40°	51332
45°	27282
50°	16119
55°	10838
60°	6907
65°	4903
70°	4039
75°	2669
80°	3978
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.0	17.5
10°-20°	491.9	40.1
20°-30°	348.8	28.4
30°-40°	120.4	9.8
40°-50°	32.7	2.7
50°-60°	11.5	0.9
60°-70°	4.7	0.4
70°-80°	2.0	0.2
80°-90°	0.2	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°	1055.7	86.0
0°-40°	1176.1	95.8
0°-60°	1220.3	99.4
0°-90°	1227.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1227.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2246	
5°	2280	215
15°	1825	492
25°	751	349
35°	176	120
45°	39	33
55°	13	12
65°	4	5
75°	1	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2245.5
2.5°	2255.3
5°	2280.4
7.5°	2273.4
10°	2182.6
12.5°	2032.9
15°	1824.6
17.5°	1549.2
20°	1266.7
22.5°	995.5
25°	750.8
27.5°	545.3
30°	387.3
32.5°	262.9
35°	176.2
37.5°	117.4
40°	79.7
42.5°	54.5
45°	39.1
47.5°	28.0
50°	21.0
52.5°	15.4
55°	12.6
57.5°	9.8
60°	7.0
62.5°	5.6
65°	4.2
67.5°	4.2
70°	2.8
72.5°	2.8
75°	1.4
77.5°	1.4
80°	1.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)