

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: HALO

Report Number: P328463

Luminaire Tested: **L815MED20NP930MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P328463  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-15)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L815MED20NP930MB  
Description: Medium, 2000lm, 8D, 3000K, black finish  
Light Source: (1) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

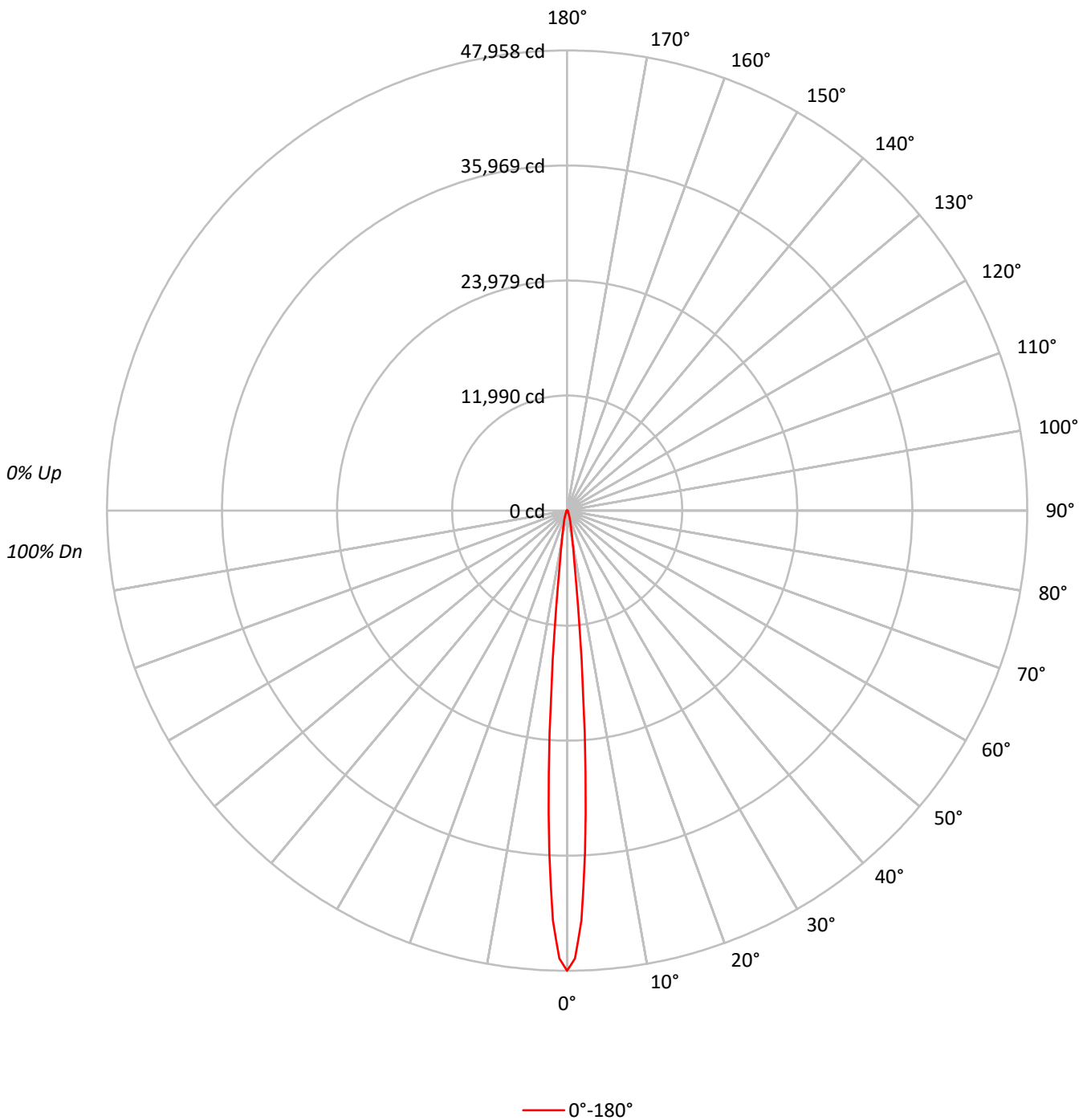
Lumens per Lamp: N/A  
Luminaire Lumens: 2111.0 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Spacing Criteria (0/90/45): 0.15 / 0.15 / 0.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 24.7  
Input Voltage (V): NR  
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	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	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	97	96	95	93
3	108	103	100	97	106	102	99	96	99	97	95	97	95	93	95	93	92	90
4	105	100	96	93	103	99	95	92	97	94	91	95	92	90	93	91	89	88
5	102	97	93	90	101	96	92	89	94	91	89	93	90	88	91	89	87	86
6	100	94	90	87	99	93	90	87	92	89	87	91	88	86	90	87	85	84
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83
8	96	90	86	83	95	89	86	83	88	85	83	88	85	83	87	84	82	82
9	94	88	84	82	93	88	84	82	87	84	82	86	83	81	86	83	81	80
10	92	86	83	81	92	86	83	80	85	82	80	85	82	80	84	82	80	79

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

	0°
0°	5915434
5°	2346365
10°	389285
15°	170296
20°	88142
25°	44667
30°	30195
35°	21186
40°	15699
45°	13083
50°	13682
55°	8064
60°	8338
65°	12579
70°	1370
75°	15203
80°	10655
85°	15992



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1294.5	61.3
10°-20°	393.7	18.6
20°-30°	167.3	7.9
30°-40°	87.4	4.1
40°-50°	63.5	3.0
50°-60°	44.8	2.1
60°-70°	31.3	1.5
70°-80°	19.4	0.9
80°-90°	9.2	0.4
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°	1855.4	87.9
0°-40°	1942.8	92.0
0°-60°	2051.1	97.2
0°-90°	2111.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2111.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	47958	
5°	18950	###
15°	1334	394
25°	328	167
35°	141	87
45°	75	64
55°	38	45
65°	43	31
75°	32	19
85°	11	9
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	47958.2
1°	46680.8
2°	42732.5
3°	35668.5
4°	27546.7
5°	18950.3
6°	12396.6
7°	7752.3
8°	5283.9
9°	3944.6
10°	3108.1
11°	2566.0
12°	2128.9
13°	1804.4
14°	1532.5
15°	1333.6
17.5°	924.7
20°	671.5
22.5°	470.8
25°	328.2
27.5°	257.0
30°	212.0
32.5°	148.2
35°	140.7
37.5°	120.0
40°	97.5
42.5°	99.4
45°	75.0
47.5°	71.3
50°	71.3
52.5°	58.1
55°	37.5
57.5°	52.5
60°	33.8
62.5°	54.4
65°	43.1
67.5°	11.3
70°	3.8
72.5°	16.9
75°	31.9
77.5°	15.0
80°	15.0
82.5°	15.0
85°	11.3
87.5°	0.0



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CANDELA DISTRIBUTION (continued):

90° |  $\frac{0^\circ}{0.0}$

(END OF REPORT)