

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: P328465

Luminaire Tested: **L815MED20NP940MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328465
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: L815MED20NP940MB
Description: Medium, 2000lm, 8D, 4000K, black finish
Light Source: (1) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

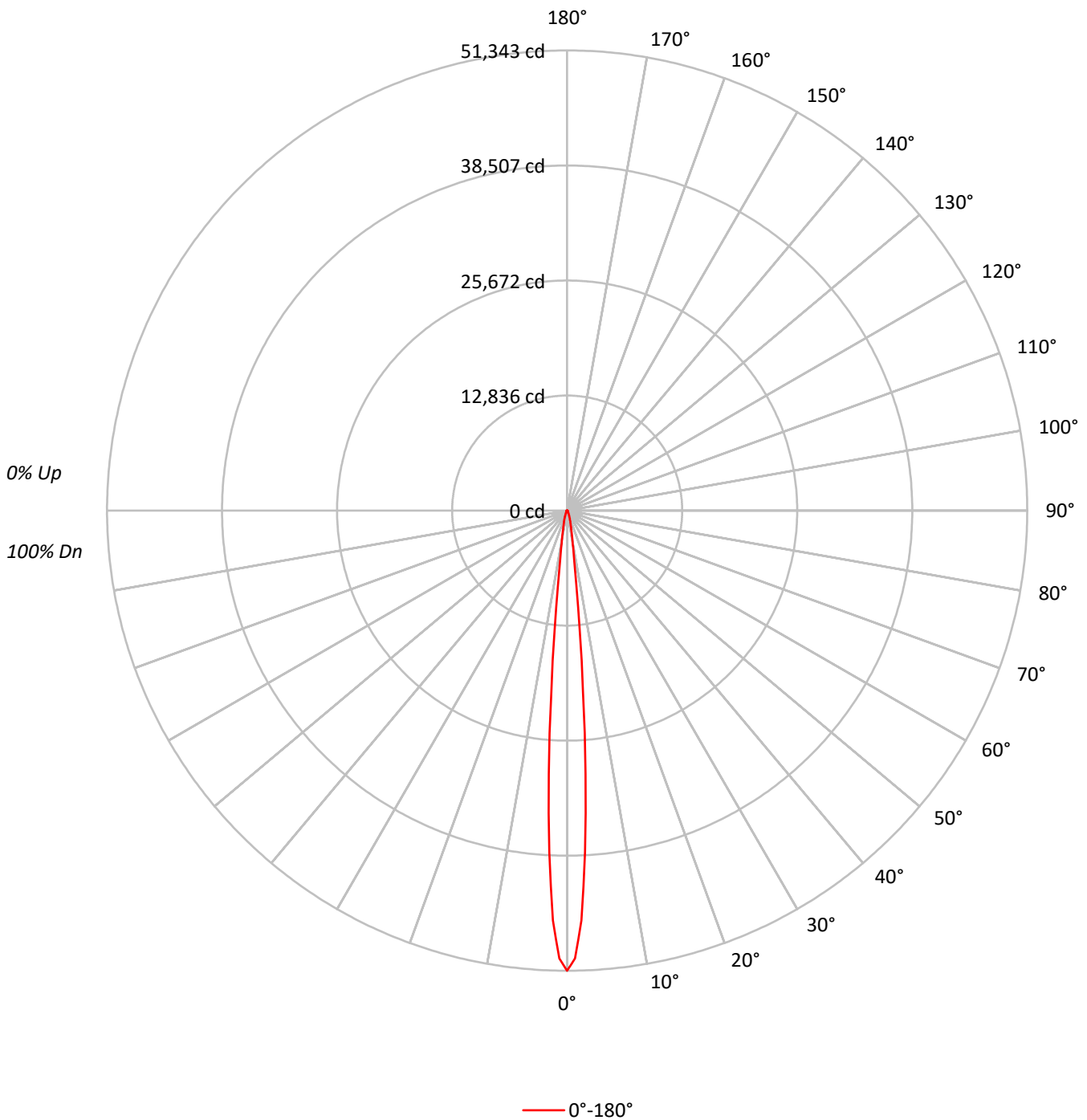
Lumens per Lamp: N/A
Luminaire Lumens: 2260.0 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 0.15 / 0.15 / 0.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	6332959
5°	2511983
10°	416752
15°	182325
20°	94364
25°	47824
30°	32317
35°	22677
40°	16810
45°	14007
50°	14641
55°	8645
60°	8906
65°	13484
70°	1443
75°	16251
80°	11436
85°	16983



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1385.8	61.3
10°-20°	421.5	18.7
20°-30°	179.0	7.9
30°-40°	93.6	4.1
40°-50°	68.0	3.0
50°-60°	47.9	2.1
60°-70°	33.5	1.5
70°-80°	20.7	0.9
80°-90°	9.8	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°	1986.4	87.9
0°-40°	2079.9	92.0
0°-60°	2195.9	97.2
0°-90°	2260.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2260.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	51343	
5°	20288	###
15°	1428	421
25°	351	179
35°	151	94
45°	80	68
55°	40	48
65°	46	34
75°	34	21
85°	12	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	51343.2
1°	49975.7
2°	45748.6
3°	38186.1
4°	29491.0
5°	20287.9
6°	13271.6
7°	8299.5
8°	5656.8
9°	4223.0
10°	3327.4
11°	2747.1
12°	2279.2
13°	1931.8
14°	1640.6
15°	1427.8
17.5°	990.0
20°	718.9
22.5°	504.0
25°	351.4
27.5°	275.1
30°	226.9
32.5°	158.6
35°	150.6
37.5°	128.5
40°	104.4
42.5°	106.4
45°	80.3
47.5°	76.3
50°	76.3
52.5°	62.3
55°	40.2
57.5°	56.2
60°	36.1
62.5°	58.2
65°	46.2
67.5°	12.0
70°	4.0
72.5°	18.1
75°	34.1
77.5°	16.1
80°	16.1
82.5°	16.1
85°	12.0
87.5°	0.0



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CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0.0}$

(END OF REPORT)