

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: P328545

Luminaire Tested: **L815SML18FL940MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L815SML18FL940MB
Description: Small, 1800lm, 45D, 4000K, black finish
Light Source: (1) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

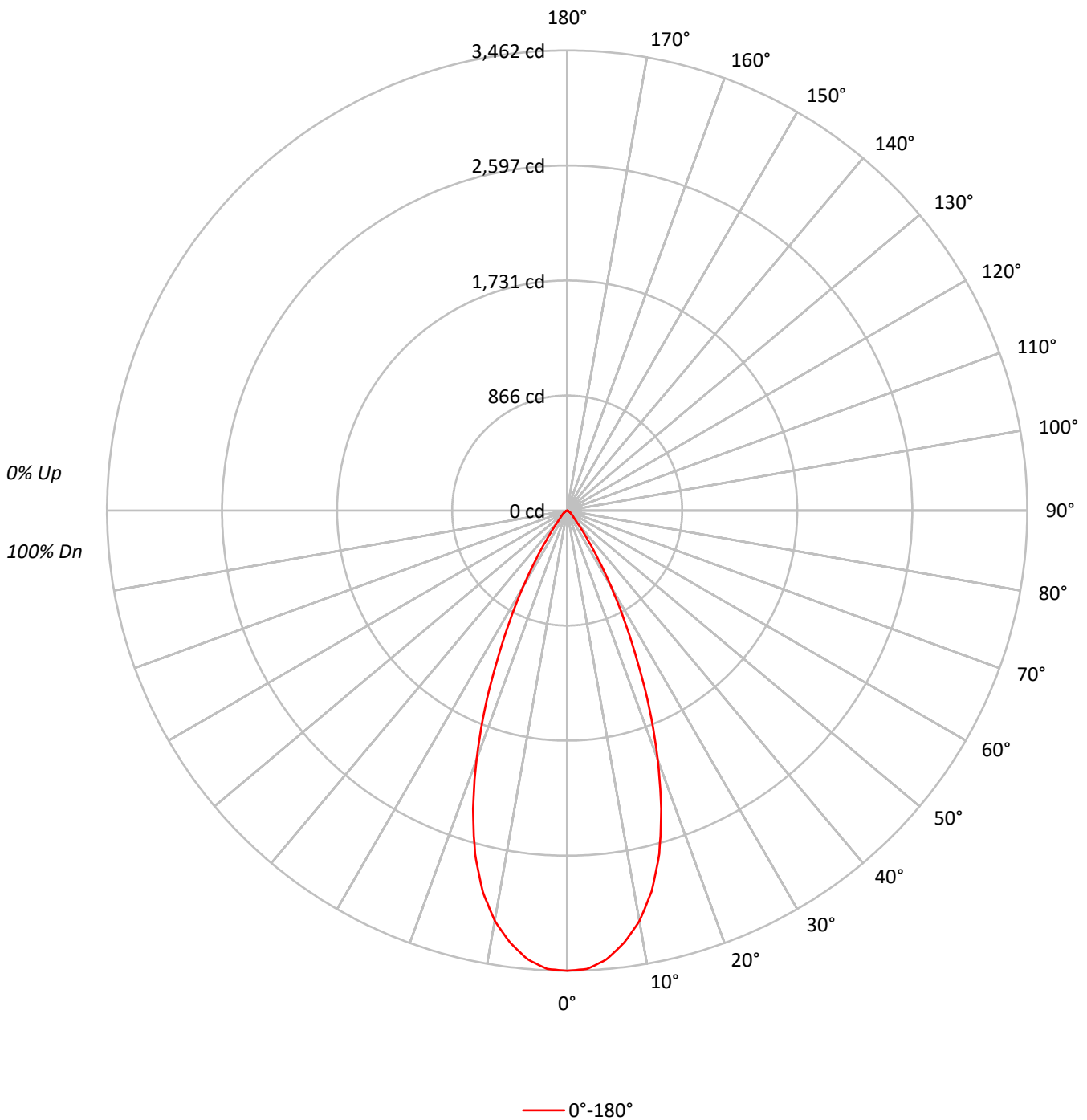
Lumens per Lamp: N/A
Luminaire Lumens: 1899.0 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 0.71 / 0.68
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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	114	112	109	107	112	109	107	106	105	104	102		102	100	99		98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94	93	91	89
3	105	99	94	91	103	97	93	90	95	91	89		93	90	87		90	88	86	85
4	100	93	88	85	98	92	88	84	90	86	83		88	85	82		86	84	81	80
5	96	88	83	80	94	88	83	79	86	82	78		84	81	78		83	80	77	76
6	92	84	79	75	90	83	78	75	82	77	74		81	77	74		79	76	73	72
7	88	80	75	71	87	79	74	71	78	74	70		77	73	70		76	72	70	68
8	85	76	71	67	83	76	71	67	75	70	67		74	70	67		73	69	66	65
9	81	73	68	64	80	72	67	64	71	67	64		71	67	64		70	66	63	62
10	78	70	65	61	77	69	64	61	69	64	61		68	64	61		67	63	61	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	759215
5°	746311
10°	697805
15°	607109
20°	465167
25°	301590
30°	167469
35°	73883
40°	31344
45°	20157
50°	15181
55°	10896
60°	7017
65°	4151
70°	2180
75°	932
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.3	16.6
10°-20°	729.4	38.4
20°-30°	573.9	30.2
30°-40°	191.9	10.1
40°-50°	53.1	2.8
50°-60°	25.5	1.3
60°-70°	8.6	0.5
70°-80°	1.3	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°	1618.6	85.2
0°-40°	1810.5	95.3
0°-60°	1889.1	99.5
0°-90°	1899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1899.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3462	
5°	3390	315
15°	2674	729
25°	1246	574
35°	276	192
45°	65	53
55°	28	25
65°	8	9
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3462.3
2.5°	3452.0
5°	3390.5
7.5°	3279.8
10°	3133.9
12.5°	2935.4
15°	2674.3
17.5°	2353.8
20°	1993.4
22.5°	1618.3
25°	1246.5
27.5°	926.0
30°	661.4
32.5°	437.9
35°	276.0
37.5°	165.4
40°	109.5
42.5°	82.1
45°	65.0
47.5°	53.6
50°	44.5
52.5°	35.4
55°	28.5
57.5°	20.5
60°	16.0
62.5°	11.4
65°	8.0
67.5°	5.7
70°	3.4
72.5°	2.3
75°	1.1
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)