

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: P382119

Luminaire Tested: **RA6069S1EWHMDMR-3500K**

Test Date: 11/12/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P382119  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1911-579-1)  
Test Lab: INNOVATION CENTER (G1)  
Test Date: 11/12/2019  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: RA6069S1EWHMDMR-3500K  
Description: HALO RA Direct Mount Downlight 6" 3500K  
Light Source: (32) 90 CRI LEDS  
BRIDGELUX2835  
Ballast/Driver: ELECTRICAL DRIVER

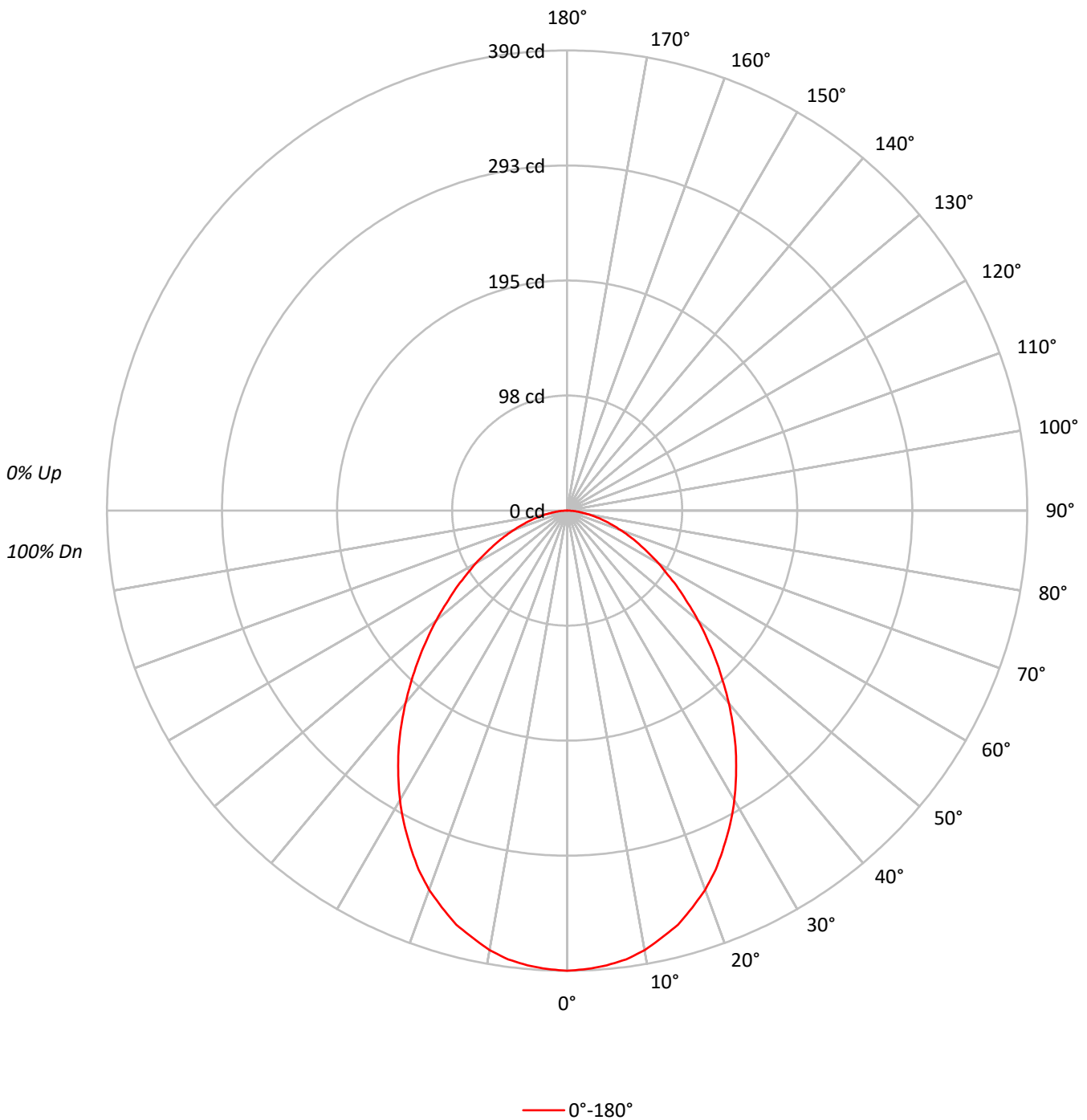
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 788.7 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.18  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 8.34  
Input Voltage (V): 120  
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87				87
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	83	79	76	74				74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	67	64				64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56				56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44				44
7	69	57	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40				40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36				36
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	33				33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30				30

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

	0°
0°	85519
5°	85142
10°	84234
15°	82475
20°	79807
25°	76045
30°	71758
35°	66736
40°	61000
45°	55169
50°	49431
55°	44003
60°	39251
65°	34816
70°	30710
75°	27112
80°	22856
85°	18870



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.7	4.6
10°-20°	102.0	12.9
20°-30°	144.5	18.3
30°-40°	155.4	19.7
40°-50°	137.3	17.4
50°-60°	103.2	13.1
60°-70°	67.0	8.5
70°-80°	34.0	4.3
80°-90°	8.6	1.1
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°	283.2	35.9
0°-40°	438.6	55.6
0°-60°	679.1	86.1
0°-90°	788.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	788.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	390	
5°	387	37
15°	363	102
25°	314	144
35°	249	155
45°	178	137
55°	115	103
65°	67	67
75°	32	34
85°	8	9
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	390.0
2.5°	388.9
5°	386.8
7.5°	383.6
10°	378.3
12.5°	370.8
15°	363.3
17.5°	352.7
20°	342.0
22.5°	329.2
25°	314.3
27.5°	299.4
30°	283.4
32.5°	266.4
35°	249.3
37.5°	231.2
40°	213.1
42.5°	195.0
45°	177.9
47.5°	160.9
50°	144.9
52.5°	128.9
55°	115.1
57.5°	101.2
60°	89.5
62.5°	77.8
65°	67.1
67.5°	57.5
70°	47.9
72.5°	39.4
75°	32.0
77.5°	24.5
80°	18.1
82.5°	11.7
85°	7.5
87.5°	3.2
90°	0.0

(END OF REPORT)