

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: P382120

Luminaire Tested: **RA6069S1EWHMDMR-4000K**

Test Date: 11/12/2019

Test Information

Test Method: LM-79-08
Report Number: P382120
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-4000K
Description: HALO RA Direct Mount Downlight 6" 4000K
Light Source: (32) 90 CRI LEDS
BRIDGELUX2835
Ballast/Driver: ELECTRICAL DRIVER

Summary

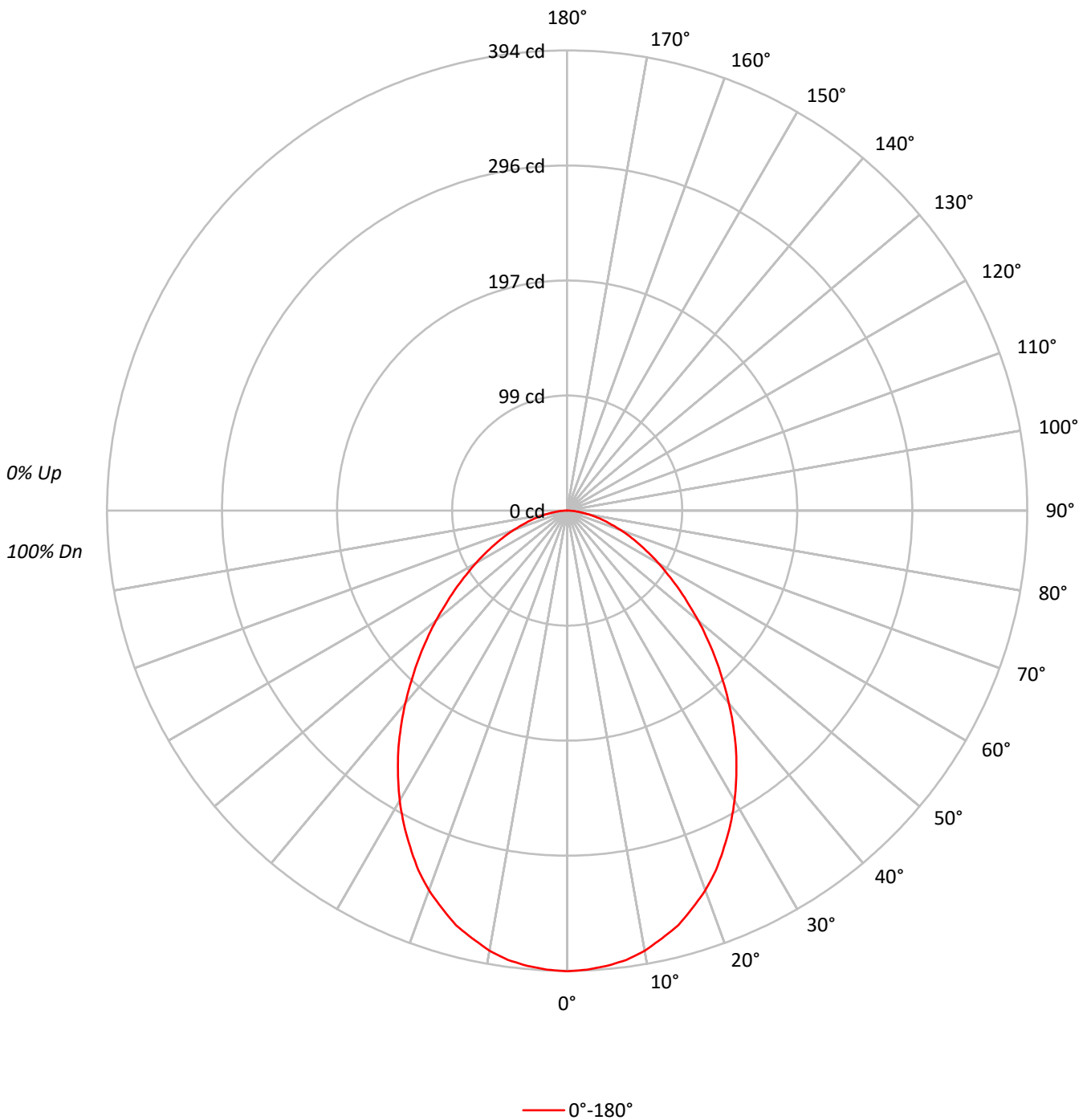
Lumens per Lamp: N/A
Luminaire Lumens: 797.9 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.18
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 8.37
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	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°	86506
5°	86132
10°	85213
15°	83451
20°	80740
25°	76940
30°	72593
35°	67512
40°	61716
45°	55820
50°	50011
55°	44500
60°	39690
65°	35231
70°	31095
75°	27366
80°	23109
85°	18870



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.1	4.6
10°-20°	103.2	12.9
20°-30°	146.2	18.3
30°-40°	157.2	19.7
40°-50°	138.9	17.4
50°-60°	104.4	13.1
60°-70°	67.8	8.5
70°-80°	34.4	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°	286.5	35.9
0°-40°	443.7	55.6
0°-60°	687.1	86.1
0°-90°	797.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	797.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	394	
5°	391	37
15°	368	103
25°	318	146
35°	252	157
45°	180	139
55°	116	104
65°	68	68
75°	32	34
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	394.5
2.5°	393.4
5°	391.3
7.5°	388.0
10°	382.7
12.5°	375.1
15°	367.6
17.5°	356.8
20°	346.0
22.5°	333.1
25°	318.0
27.5°	302.9
30°	286.7
32.5°	269.5
35°	252.2
37.5°	233.9
40°	215.6
42.5°	197.3
45°	180.0
47.5°	162.8
50°	146.6
52.5°	130.4
55°	116.4
57.5°	102.4
60°	90.5
62.5°	78.7
65°	67.9
67.5°	58.2
70°	48.5
72.5°	39.9
75°	32.3
77.5°	24.8
80°	18.3
82.5°	11.9
85°	7.5
87.5°	3.2
90°	0.0

(END OF REPORT)