

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: P382121

Luminaire Tested: **RA6069S1EWHMDMR-5000K**

Test Date: 11/12/2019

Test Information

Test Method: LM-79-08
Report Number: P382121
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-5000K
Description: HALO RA Direct Mount Downlight 6" 5000K
Light Source: (32) 90 CRI LEDS
BRIDGELUX2835
Ballast/Driver: ELECTRICAL DRIVER

Summary

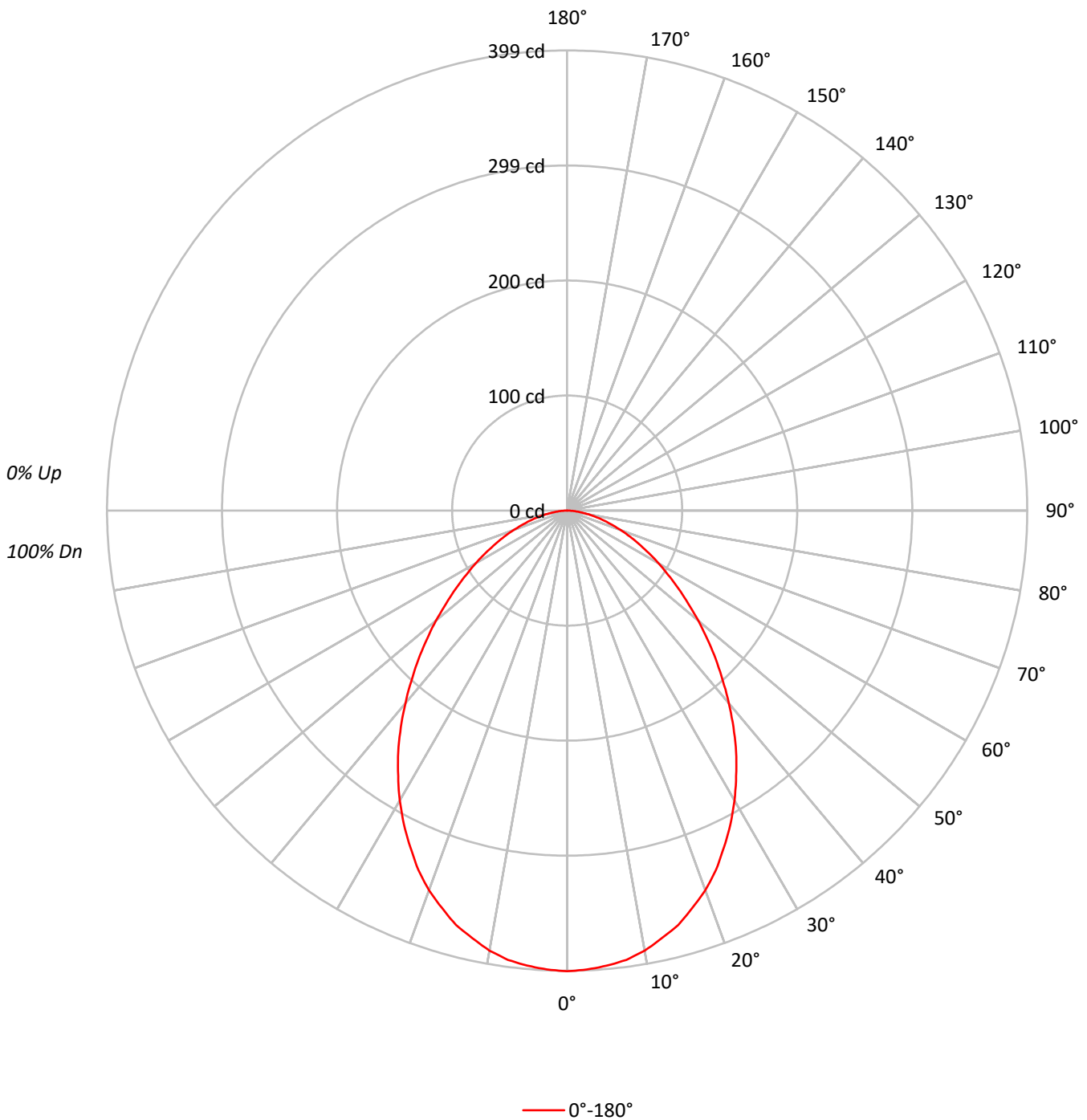
Lumens per Lamp: N/A
Luminaire Lumens: 807.8 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.18
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 8.42
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	83	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	67	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	87581
5°	87189
10°	86260
15°	84473
20°	81744
25°	77884
30°	73505
35°	68369
40°	62489
45°	56502
50°	50625
55°	45074
60°	40216
65°	35646
70°	31480
75°	27705
80°	23488
85°	19121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.6	4.6
10°-20°	104.5	12.9
20°-30°	148.0	18.3
30°-40°	159.2	19.7
40°-50°	140.6	17.4
50°-60°	105.7	13.1
60°-70°	68.6	8.5
70°-80°	34.8	4.3
80°-90°	8.8	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°	290.0	35.9
0°-40°	449.2	55.6
0°-60°	695.6	86.1
0°-90°	807.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	807.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	399	
5°	396	38
15°	372	104
25°	322	148
35°	255	159
45°	182	141
55°	118	106
65°	69	69
75°	33	35
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	399.4
2.5°	398.3
5°	396.1
7.5°	392.9
10°	387.4
12.5°	379.8
15°	372.1
17.5°	361.2
20°	350.3
22.5°	337.2
25°	321.9
27.5°	306.6
30°	290.3
32.5°	272.8
35°	255.4
37.5°	236.8
40°	218.3
42.5°	199.7
45°	182.2
47.5°	164.8
50°	148.4
52.5°	132.0
55°	117.9
57.5°	103.7
60°	91.7
62.5°	79.7
65°	68.7
67.5°	58.9
70°	49.1
72.5°	40.4
75°	32.7
77.5°	25.1
80°	18.6
82.5°	12.0
85°	7.6
87.5°	3.3
90°	0.0

(END OF REPORT)