

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: P382125

Luminaire Tested: **RA4069S1EWHMDMR-4000K**

Test Date: 12/10/2019

Test Information

Test Method: LM-41-14
Report Number: P382125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1912-596-4)
Test Lab: INNOVATION CENTER (G2)
Test Date: 12/10/2019
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: RA4069S1EWHMDMR-4000K
Description: HALO RA Direct Mount Downlight 4" 4000K
Light Source: (24) 90 CRI LEDS
BRIDGELUX2835
Ballast/Driver: ELECTRICAL DRIVER

Summary

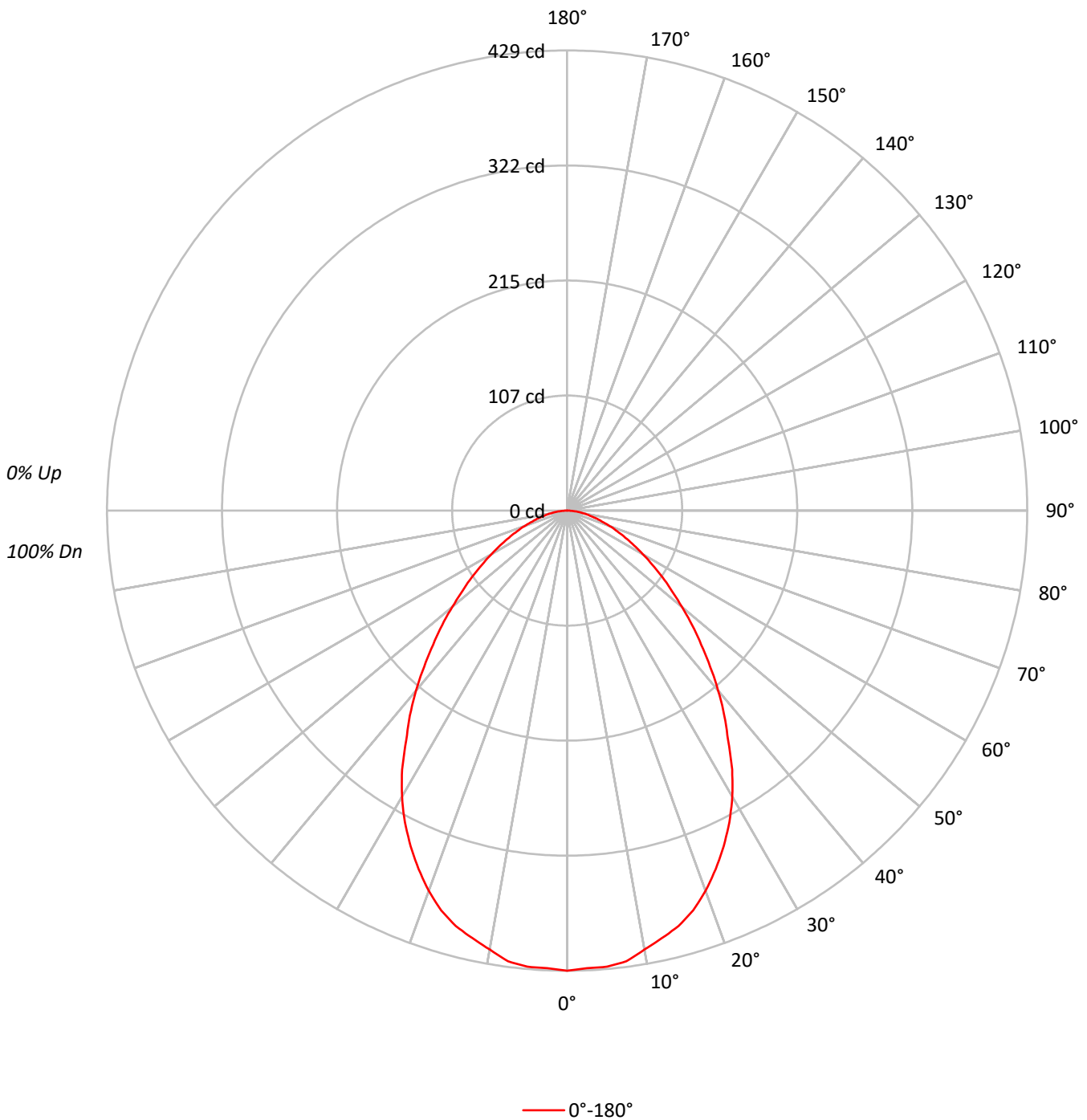
Lumens per Lamp: N/A
Luminaire Lumens: 808.1 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.14
Luminous Opening: Circular (Dia: 0.23' x H: 0')
CIE Type: Direct

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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	106	103	100	108	104	101	98	100	97	95		96	94	92		93	91	89	87
2	102	95	89	84	99	93	88	83	90	85	81		86	83	79		83	80	78	76
3	94	85	78	72	92	83	77	72	81	75	70		78	73	69		75	71	68	66
4	87	77	69	63	85	75	68	62	73	67	62		71	65	61		69	64	60	58
5	81	69	61	55	79	68	61	55	66	60	55		64	59	54		63	58	54	52
6	75	63	55	49	74	62	55	49	61	54	49		59	53	48		58	52	48	46
7	70	58	50	44	69	57	50	44	56	49	44		54	48	44		53	48	43	42
8	66	53	46	40	64	53	45	40	52	45	40		50	44	40		49	44	39	38
9	62	49	42	37	60	49	42	37	48	41	36		47	41	36		46	40	36	34
10	58	46	39	34	57	45	38	34	44	38	33		44	38	33		43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	111952
5°	111830
10°	110102
15°	108337
20°	104780
25°	99397
30°	92810
35°	83307
40°	74639
45°	65249
50°	56635
55°	49364
60°	42641
65°	36987
70°	32351
75°	28131
80°	24947
85°	21558



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.4	5.0
10°-20°	112.6	13.9
20°-30°	158.4	19.6
30°-40°	164.1	20.3
40°-50°	136.9	16.9
50°-60°	97.3	12.0
60°-70°	60.0	7.4
70°-80°	29.8	3.7
80°-90°	8.4	1.0
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°	311.4	38.5
0°-40°	475.6	58.9
0°-60°	709.9	87.8
0°-90°	808.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	808.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	429	
5°	427	40
15°	401	113
25°	345	158
35°	262	164
45°	177	137
55°	108	97
65°	60	60
75°	28	30
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	429.0
2.5°	426.9
5°	426.9
7.5°	423.8
10°	415.5
12.5°	408.3
15°	401.0
17.5°	390.7
20°	377.3
22.5°	361.8
25°	345.2
27.5°	327.6
30°	308.0
32.5°	286.3
35°	261.5
37.5°	240.8
40°	219.1
42.5°	197.4
45°	176.8
47.5°	158.1
50°	139.5
52.5°	123.0
55°	108.5
57.5°	94.1
60°	81.7
62.5°	70.2
65°	59.9
67.5°	50.6
70°	42.4
72.5°	34.1
75°	27.9
77.5°	21.7
80°	16.6
82.5°	12.4
85°	7.2
87.5°	3.1
90°	0.0

(END OF REPORT)