

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: P382123

Luminaire Tested: **RA4069S1EWHMDMR-3000K**

Test Date: 12/10/2019

Test Information

Test Method: LM-41-14
Report Number: P382123
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-3000K
Description: HALO RA Direct Mount Downlight 4" 3000K
Light Source: (24) 90 CRI LEDS
BRIDGELUX2835
Ballast/Driver: ELECTRICAL DRIVER

Summary

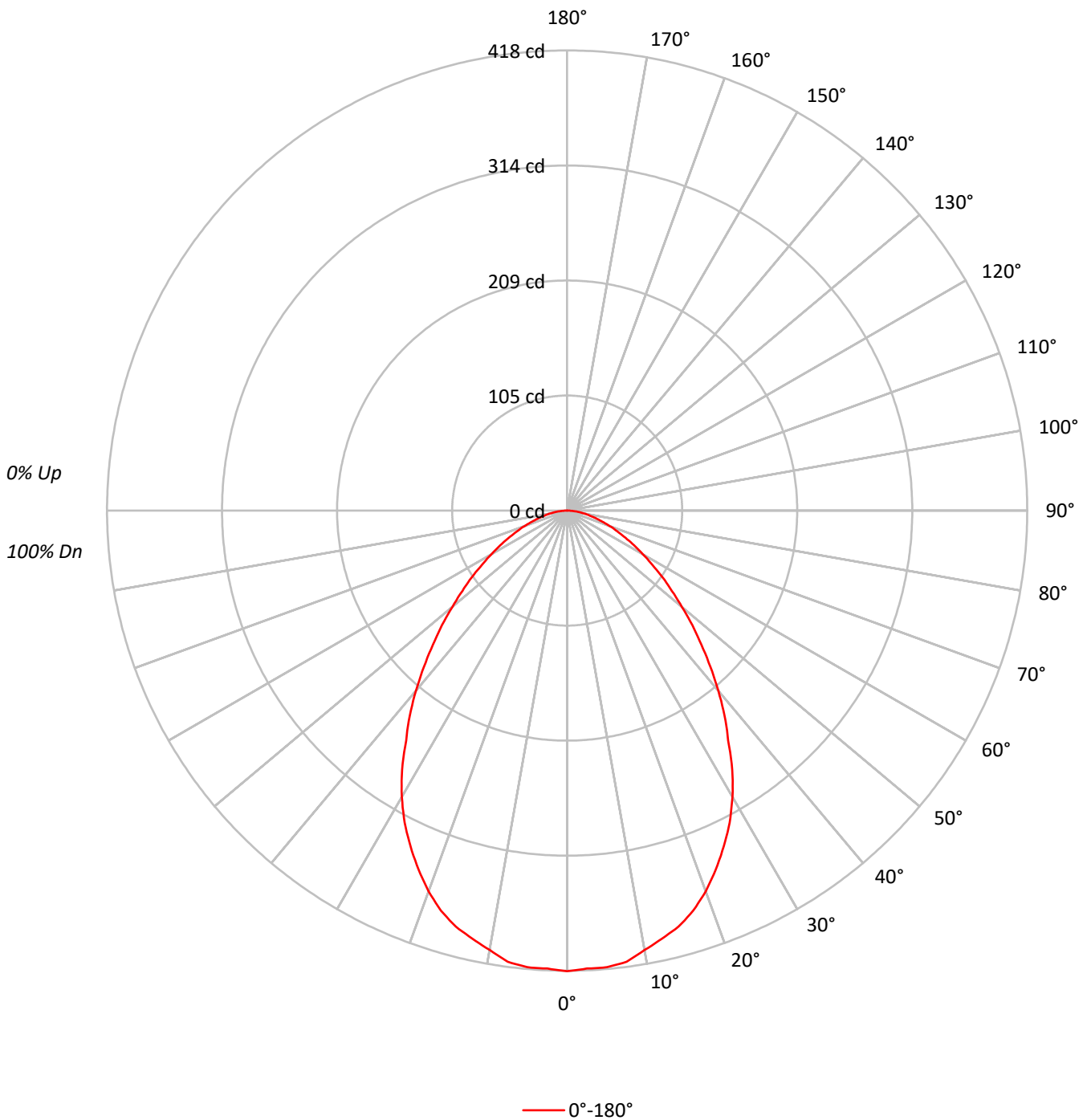
Lumens per Lamp: N/A
Luminaire Lumens: 788.3 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.14
Luminous Opening: Circular (Dia: 0.23' x H: 0')
CIE Type: Direct

Input Watts (W): 8.27
Input Voltage (V): 120
Input Current (A_{in}): 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	51	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°	109186
5°	109079
10°	107399
15°	105689
20°	102197
25°	96949
30°	90520
35°	81268
40°	72799
45°	63625
50°	55254
55°	48182
60°	41597
65°	36123
70°	31588
75°	27425
80°	24346
85°	21259



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.4	5.0
10°-20°	109.8	13.9
20°-30°	154.5	19.6
30°-40°	160.1	20.3
40°-50°	133.6	16.9
50°-60°	95.0	12.0
60°-70°	58.6	7.4
70°-80°	29.1	3.7
80°-90°	8.3	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°	303.8	38.5
0°-40°	463.9	58.8
0°-60°	692.4	87.8
0°-90°	788.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	788.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	418	
5°	416	39
15°	391	110
25°	337	155
35°	255	160
45°	172	134
55°	106	95
65°	58	59
75°	27	29
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	418.4
2.5°	416.4
5°	416.4
7.5°	413.4
10°	405.3
12.5°	398.2
15°	391.2
17.5°	381.1
20°	368.0
22.5°	352.9
25°	336.7
27.5°	319.6
30°	300.4
32.5°	279.2
35°	255.1
37.5°	234.9
40°	213.7
42.5°	192.5
45°	172.4
47.5°	154.2
50°	136.1
52.5°	120.0
55°	105.9
57.5°	91.7
60°	79.7
62.5°	68.5
65°	58.5
67.5°	49.4
70°	41.4
72.5°	33.3
75°	27.2
77.5°	21.2
80°	16.2
82.5°	12.1
85°	7.1
87.5°	3.1
90°	0.0

(END OF REPORT)