

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: P239171

Luminaire Tested: **RA4069S1EWH-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P239171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1803-688-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: RA4069S1EWH-3000K
Description: 4" LED Adjustable Gimbal, CCT Selectable
Light Source: (24) 3000K CCT, 93 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

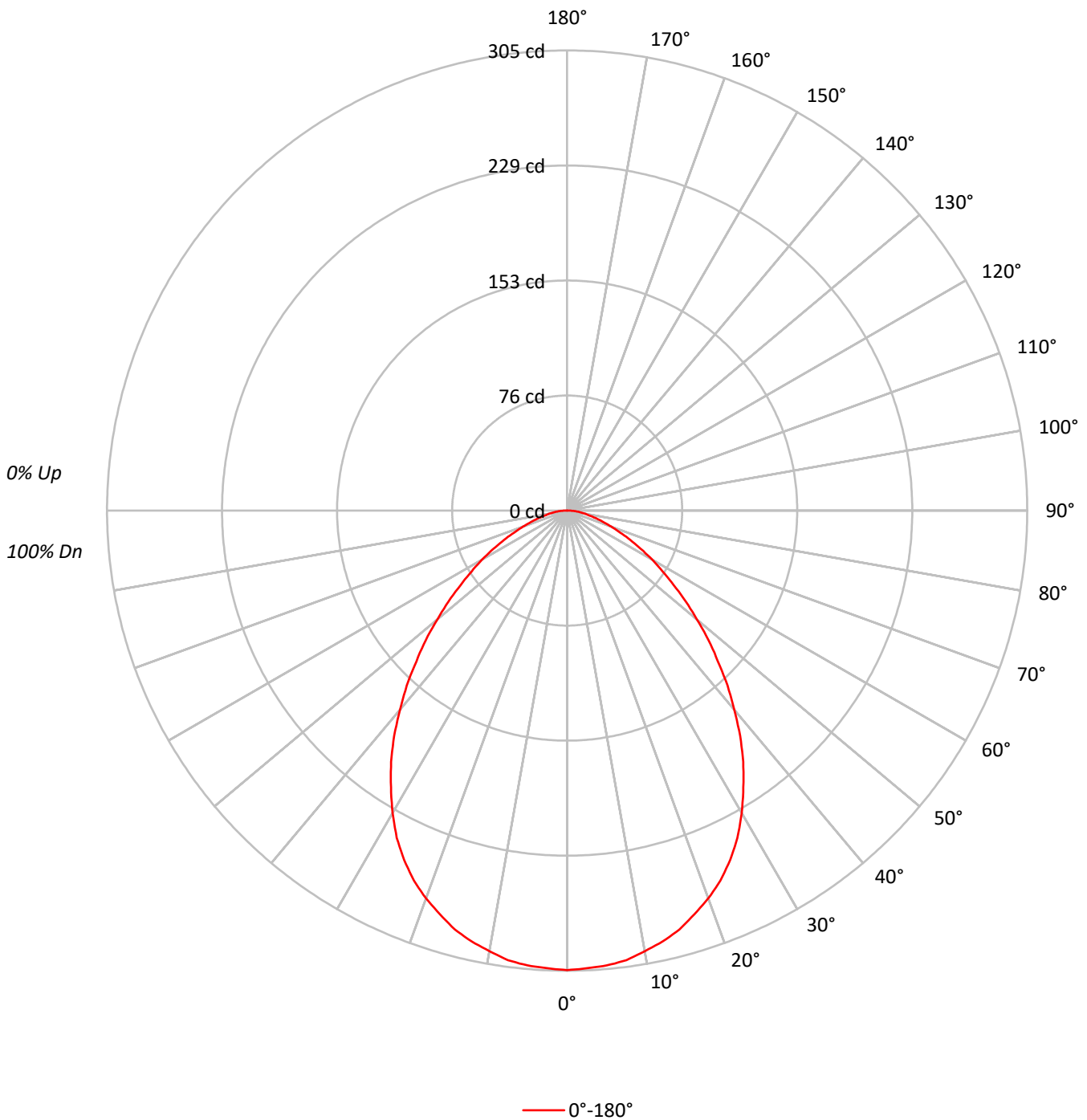
Lumens per Lamp: N/A
Luminaire Lumens: 615.0 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.2
Luminous Opening: Circular (Dia: 0.26' x H: 0')
CIE Type: Direct

Input Watts (W): 7
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	99	108	104	101	98	100	97	95		96	94	92		93	91	89	87
2	102	95	89	84	99	93	87	83	89	85	81		86	82	79		83	80	77	75
3	94	85	77	72	92	83	76	71	80	75	70		78	73	69		75	71	68	66
4	87	76	68	62	85	75	68	62	72	66	61		70	65	60		68	63	60	58
5	81	69	61	55	79	68	60	55	66	59	54		64	58	53		62	57	53	51
6	75	63	55	49	73	62	54	48	60	53	48		58	52	48		57	52	47	45
7	70	57	49	44	68	57	49	43	55	48	43		54	48	43		52	47	43	41
8	65	53	45	39	64	52	45	39	51	44	39		50	43	39		48	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36		46	40	35		45	39	35	34
10	58	45	38	33	56	45	38	33	44	37	33		43	37	32		42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	61556
5°	61386
10°	60844
15°	60150
20°	58818
25°	56971
30°	53998
35°	50180
40°	45454
45°	40383
50°	35275
55°	30371
60°	26312
65°	22044
70°	18376
75°	15616
80°	13965
85°	13912



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.7	4.7
10°-20°	80.8	13.1
20°-30°	117.2	19.1
30°-40°	126.6	20.6
40°-50°	109.3	17.8
50°-60°	77.9	12.7
60°-70°	46.3	7.5
70°-80°	21.5	3.5
80°-90°	6.5	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°	226.8	36.9
0°-40°	353.4	57.5
0°-60°	540.7	87.9
0°-90°	615.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	615.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	305	
5°	303	29
15°	288	81
25°	256	117
35°	203	127
45°	141	109
55°	86	78
65°	46	46
75°	20	21
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	304.6
2.5°	303.6
5°	302.6
7.5°	300.6
10°	296.5
12.5°	292.5
15°	287.5
17.5°	280.5
20°	273.5
22.5°	265.5
25°	255.5
27.5°	244.5
30°	231.4
32.5°	217.4
35°	203.4
37.5°	188.3
40°	172.3
42.5°	157.3
45°	141.3
47.5°	127.2
50°	112.2
52.5°	99.2
55°	86.2
57.5°	75.1
60°	65.1
62.5°	55.1
65°	46.1
67.5°	38.1
70°	31.1
72.5°	25.0
75°	20.0
77.5°	15.0
80°	12.0
82.5°	9.0
85°	6.0
87.5°	3.0
90°	0.0

(END OF REPORT)