

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: P121907

Luminaire Tested: **RA406927WHC**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P121907  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (3032)  
Test Lab: TUV SUD America  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: RA406927WHC  
Description: HALO 4" ADJUSTABLE LED MODULE  
WITH WHITE TRIM AND DIFFUSE LENS  
Light Source: (1) HIGH LUMEN LED 2700K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

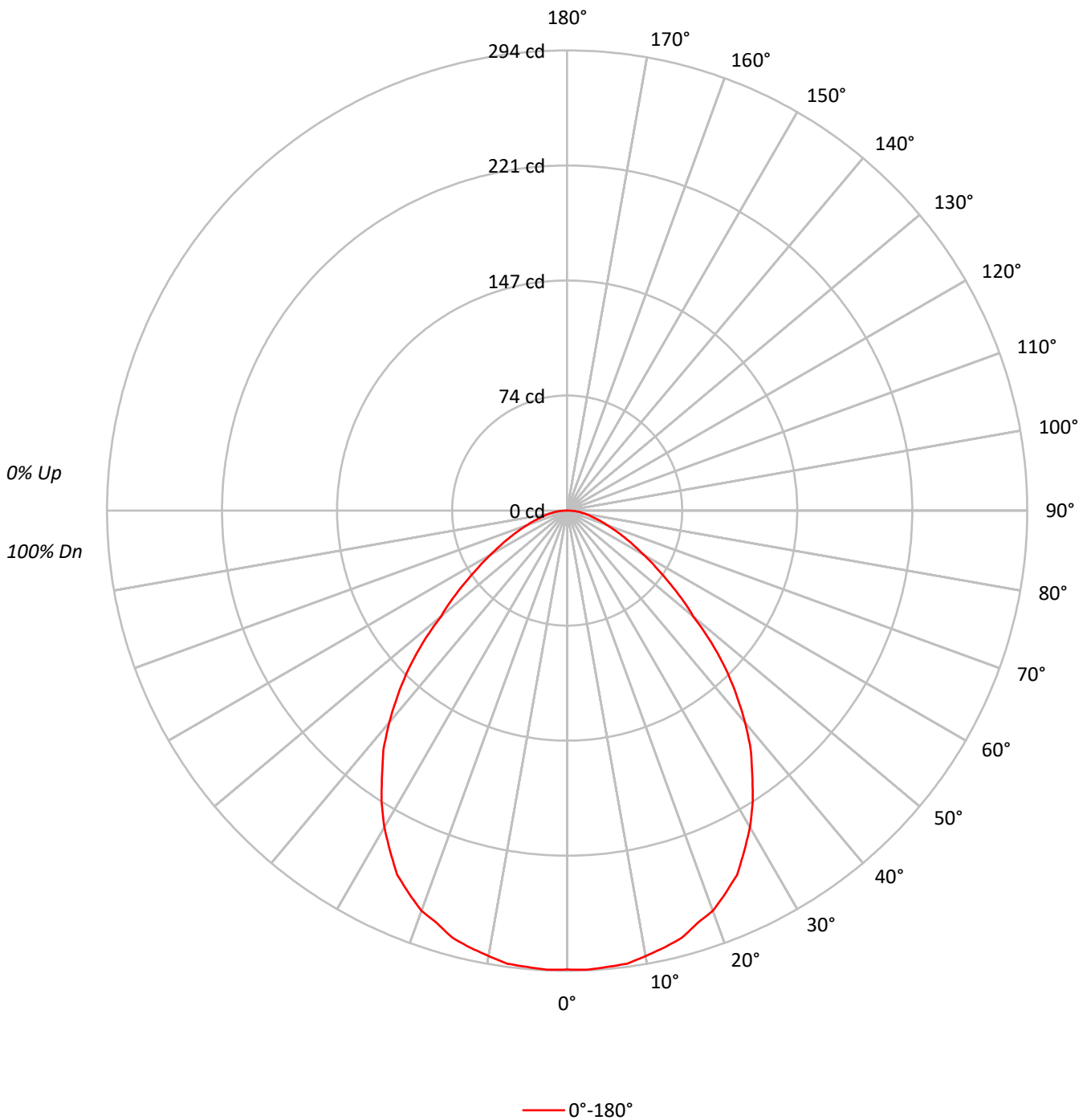
Lumens per Lamp: N/A  
Luminaire Lumens: 600.4 lumens  
Efficiency: N/A  
Efficacy: 60.0 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.23  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	111	107	103	100	108	104	101	98	100	97	95		96	94	92		93	91	89	87
2	102	95	89	84	100	93	88	83	90	85	81		87	83	80		84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71		78	73	69		76	72	68	66
4	87	77	69	63	85	75	68	63	73	67	62		71	65	61		69	64	60	58
5	81	70	61	56	79	68	61	55	66	60	55		65	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	47	43	41
8	66	53	45	40	64	53	45	40	51	45	40		50	44	39		49	43	39	38
9	62	49	42	36	60	49	41	36	48	41	36		46	40	36		45	40	36	34
10	58	46	38	33	57	45	38	33	44	38	33		43	37	33		42	37	33	31

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	63444
5°	63578
10°	63500
15°	63330
20°	62657
25°	61312
30°	58367
35°	54443
40°	49941
45°	43944
50°	35414
55°	29652
60°	24538
65°	20532
70°	17335
75°	15132
80°	14206
85°	14648



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.8	4.6
10°-20°	79.5	13.2
20°-30°	117.4	19.6
30°-40°	128.8	21.5
40°-50°	109.6	18.3
50°-60°	71.0	11.8
60°-70°	40.3	6.7
70°-80°	19.6	3.3
80°-90°	6.3	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°	224.8	37.4
0°-40°	353.6	58.9
0°-60°	534.2	89.0
0°-90°	600.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	600.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	293	
5°	293	28
15°	283	80
25°	257	117
35°	206	129
45°	144	110
55°	79	71
65°	40	40
75°	18	20
85°	6	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	293.2
2.5°	293.6
5°	292.7
7.5°	292.0
10°	289.0
12.5°	286.0
15°	282.7
17.5°	276.4
20°	272.1
22.5°	264.5
25°	256.8
27.5°	245.0
30°	233.6
32.5°	220.6
35°	206.1
37.5°	192.8
40°	176.8
42.5°	160.3
45°	143.6
47.5°	125.0
50°	105.2
52.5°	92.1
55°	78.6
57.5°	66.9
60°	56.7
62.5°	47.6
65°	40.1
67.5°	33.2
70°	27.4
72.5°	22.4
75°	18.1
77.5°	14.6
80°	11.4
82.5°	8.9
85°	5.9
87.5°	2.7
90°	0.2

(END OF REPORT)