

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: P121904

Luminaire Tested: **RA406927NFLWH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P121904
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (3034)
Test Lab: TUV SUD America
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: RA406927NFLWH
Description: HALO 4" ADJUSTABLE LED MODULE
WITH WHITE TRIM AND NARROW FLOOD REFRACTOR LENS
Light Source: (1) HIGH LUMEN LED 2700K
Ballast/Driver: ELECTRONIC DRIVER

Summary

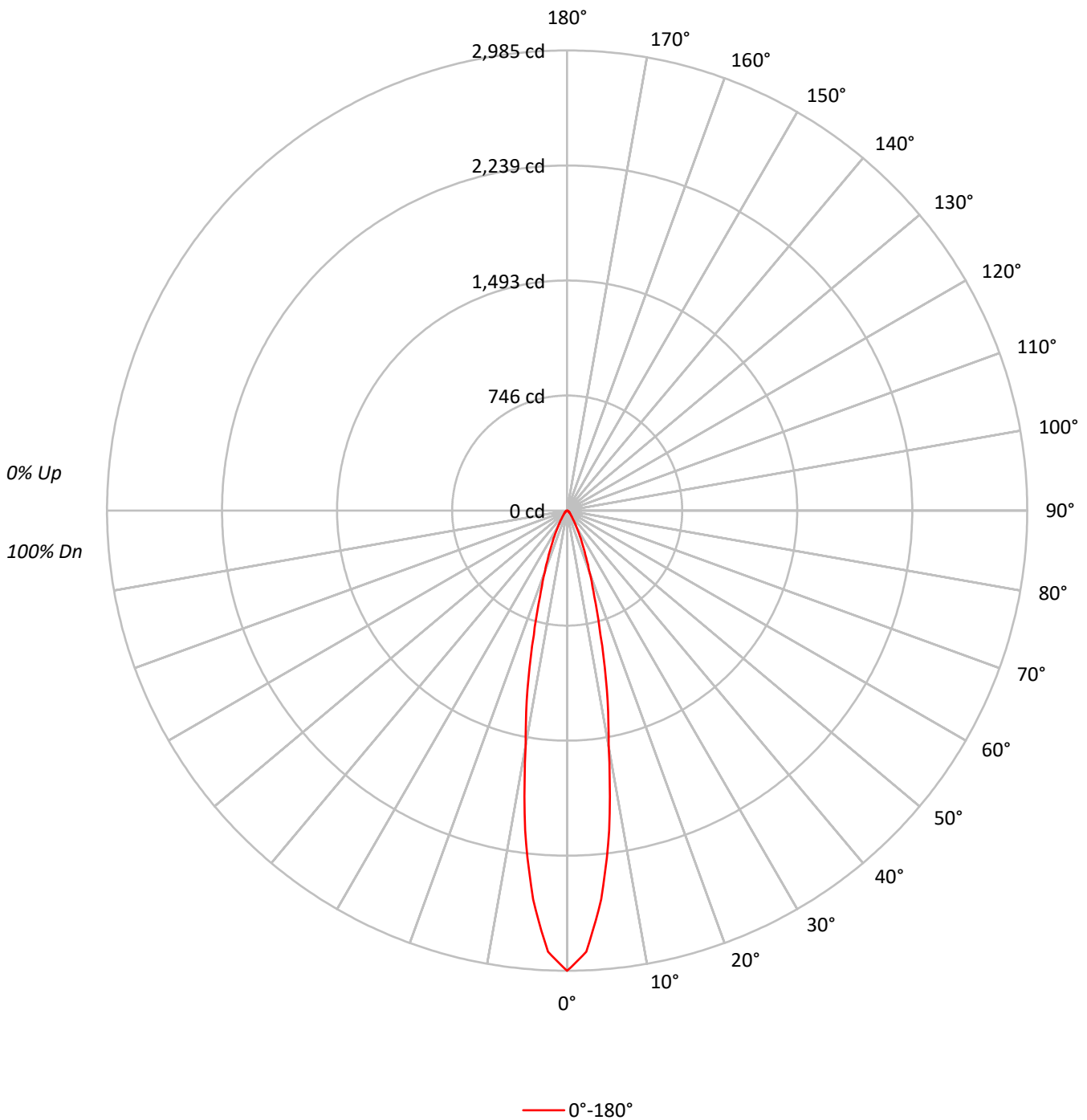
Lumens per Lamp: N/A
Luminaire Lumens: 639.7 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Spacing Criteria (0/90/45): 0.35 / 0.35 / 0.38
Luminous Opening: Vertical Cylinder (Dia: 0.22' x H: 0.1')
CIE Type: Direct

Input Watts (W): 10
Input Voltage (V): NR
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	115	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87
4	102	96	92	88	101	95	91	88	93	90	87	91	88	86	89	87	85	84
5	99	92	87	84	97	91	87	84	90	86	83	88	85	82	87	84	82	80
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77
7	92	85	80	77	91	85	80	77	83	79	77	82	79	76	81	78	76	75
8	89	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72
9	87	79	75	72	86	79	75	72	78	74	72	77	74	71	77	73	71	70
10	84	77	73	70	83	77	72	70	76	72	69	75	72	69	75	71	69	68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	820253
5°	664863
10°	392890
15°	206300
20°	102240
25°	53434
30°	27523
35°	14959
40°	9220
45°	6559
50°	5014
55°	3723
60°	2654
65°	1726
70°	939
75°	577
80°	374
85°	168



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.8	33.0
10°-20°	238.0	37.2
20°-30°	107.2	16.8
30°-40°	41.6	6.5
40°-50°	21.0	3.3
50°-60°	12.8	2.0
60°-70°	5.9	0.9
70°-80°	1.9	0.3
80°-90°	0.5	0.1
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°	555.9	86.9
0°-40°	597.5	93.4
0°-60°	631.4	98.7
0°-90°	639.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	639.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2985	
5°	2531	211
15°	836	238
25°	223	107
35°	62	42
45°	26	21
55°	14	13
65°	6	6
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2985.2
2.5°	2864.0
5°	2530.7
7.5°	2092.8
10°	1549.7
12.5°	1187.8
15°	836.0
17.5°	584.5
20°	422.2
22.5°	309.1
25°	223.1
27.5°	160.7
30°	115.3
32.5°	84.2
35°	62.4
37.5°	47.6
40°	38.0
42.5°	31.4
45°	26.5
47.5°	22.9
50°	19.7
52.5°	17.0
55°	14.1
57.5°	11.6
60°	9.6
62.5°	7.8
65°	5.9
67.5°	4.1
70°	3.0
72.5°	2.3
75°	1.7
77.5°	1.2
80°	1.0
82.5°	0.7
85°	0.4
87.5°	0.1
90°	0.0

(END OF REPORT)