

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 COMMERCIAL

Report Number: P583819

Luminaire Tested: **HC810D010-HM80520940-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC810D010-HM80520940-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1019.5 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

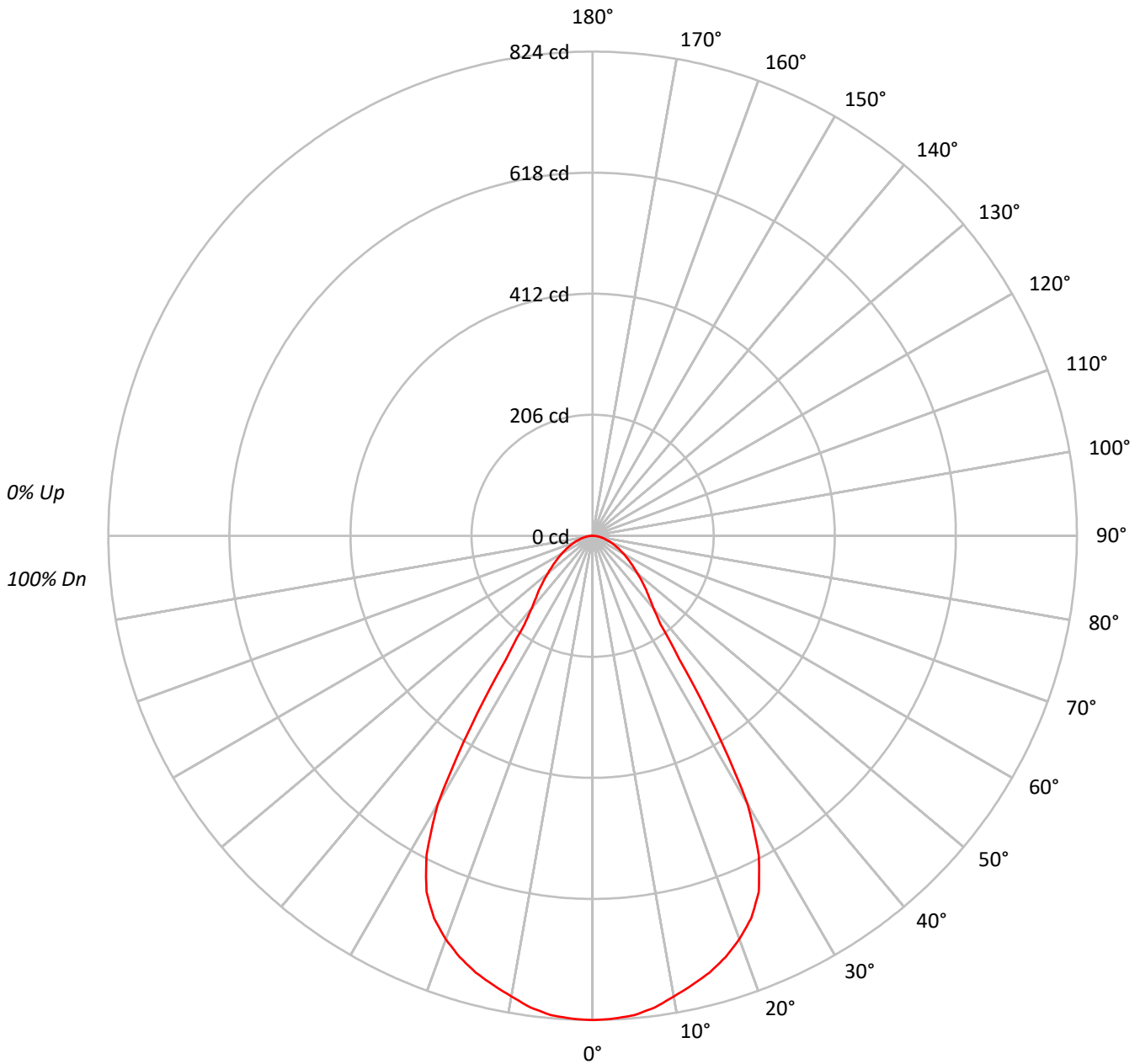
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	47	68	57	51	47	56	51	46	56	50	46	55	50	46	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	25415
5°	25345
10°	24924
15°	24559
20°	23972
25°	22755
30°	18768
35°	9663
40°	6469
45°	5547
50°	4788
55°	4172
60°	3713
65°	3334
70°	3020
75°	2716
80°	2433
85°	2441



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	7.6
10°-20°	216.5	21.2
20°-30°	299.9	29.4
30°-40°	180.1	17.7
40°-50°	98.6	9.7
50°-60°	70.0	6.9
60°-70°	45.5	4.5
70°-80°	24.3	2.4
80°-90°	7.3	0.7
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°	593.8	58.2
0°-40°	773.9	75.9
0°-60°	942.5	92.4
0°-90°	1019.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1019.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	824	
5°	819	77
15°	769	216
25°	669	300
35°	257	180
45°	127	99
55°	78	70
65°	46	45
75°	23	24
85°	7	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	824.2
2.5°	822.6
5°	818.8
7.5°	809.7
10°	796.0
12.5°	783.0
15°	769.3
17.5°	751.9
20°	730.5
22.5°	704.6
25°	668.8
27.5°	612.4
30°	527.1
32.5°	386.2
35°	256.7
37.5°	189.7
40°	160.7
42.5°	142.4
45°	127.2
47.5°	112.7
50°	99.8
52.5°	87.6
55°	77.6
57.5°	68.5
60°	60.2
62.5°	52.5
65°	45.7
67.5°	38.8
70°	33.5
72.5°	27.4
75°	22.8
77.5°	18.3
80°	13.7
82.5°	9.9
85°	6.9
87.5°	3.0
90°	0.0



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— 0°-180°







(END OF REPORT)