

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: P583768

Luminaire Tested: **HC810D010-HM80520927-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583768
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-HM80520927-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 846.6 lumens
Efficiency: N/A
Efficacy: 85.5 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

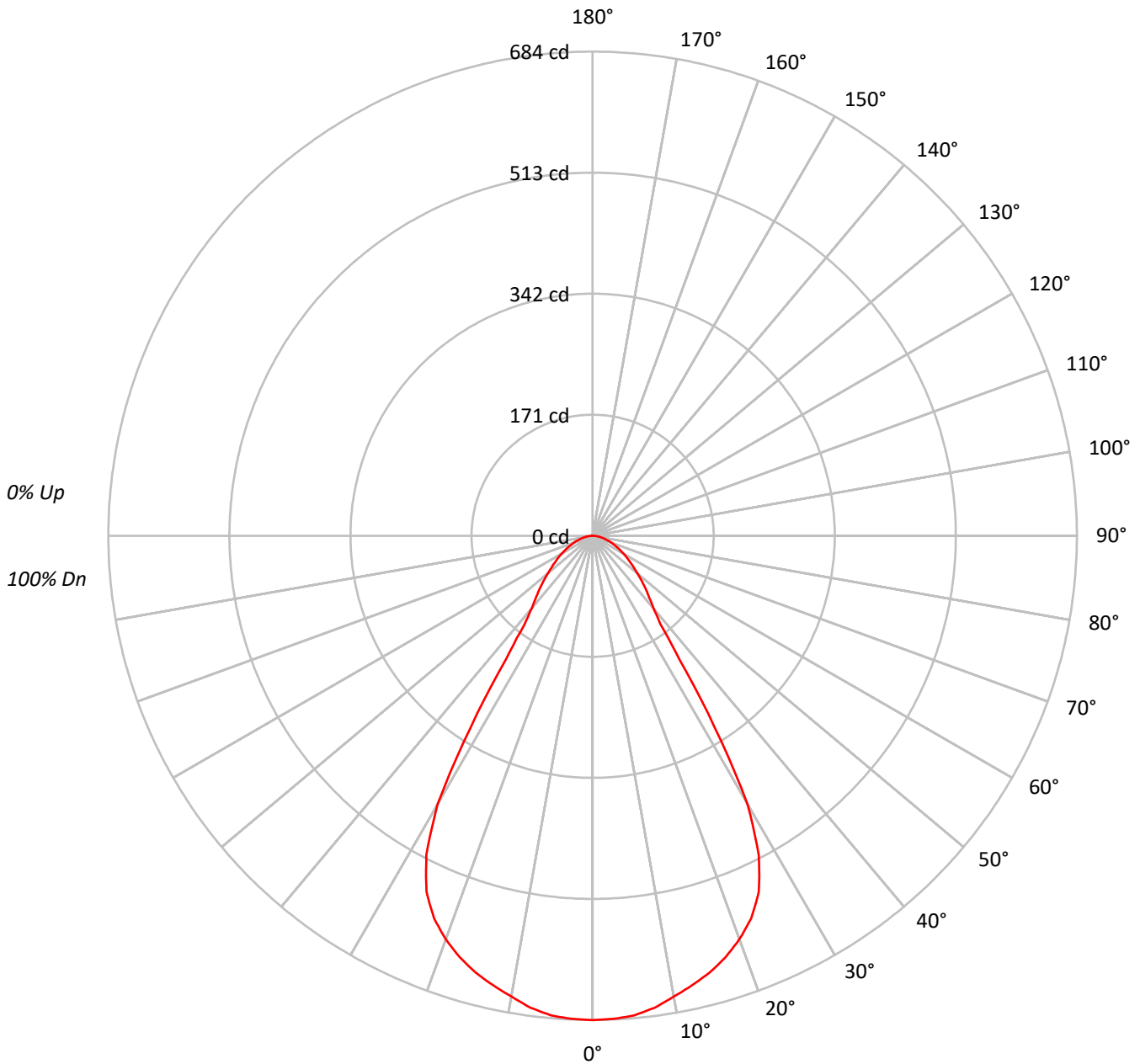
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	21101
5°	21049
10°	20697
15°	20396
20°	19902
25°	18894
30°	15581
35°	8022
40°	5370
45°	4609
50°	3972
55°	3468
60°	3084
65°	2773
70°	2515
75°	2264
80°	2024
85°	1981



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	7.6
10°-20°	179.7	21.2
20°-30°	249.0	29.4
30°-40°	149.6	17.7
40°-50°	81.9	9.7
50°-60°	58.2	6.9
60°-70°	37.8	4.5
70°-80°	20.2	2.4
80°-90°	6.0	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°	493.0	58.2
0°-40°	642.6	75.9
0°-60°	782.7	92.5
0°-90°	846.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	846.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	684	
5°	680	64
15°	639	180
25°	555	249
35°	213	150
45°	106	82
55°	64	58
65°	38	38
75°	19	20
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	684.3
2.5°	683.1
5°	680.0
7.5°	672.4
10°	661.0
12.5°	650.2
15°	638.9
17.5°	624.3
20°	606.5
22.5°	585.0
25°	555.3
27.5°	508.6
30°	437.6
32.5°	320.7
35°	213.1
37.5°	157.5
40°	133.4
42.5°	118.3
45°	105.7
47.5°	93.6
50°	82.8
52.5°	72.7
55°	64.5
57.5°	57.0
60°	50.0
62.5°	43.6
65°	38.0
67.5°	32.2
70°	27.9
72.5°	22.7
75°	19.0
77.5°	15.1
80°	11.4
82.5°	8.2
85°	5.6
87.5°	2.5
90°	0.0



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— 0°-180°







(END OF REPORT)