

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: P583785

Luminaire Tested: **HC810D010-HM80520930-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583785
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-HM80520930-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 937.6 lumens
Efficiency: N/A
Efficacy: 94.7 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

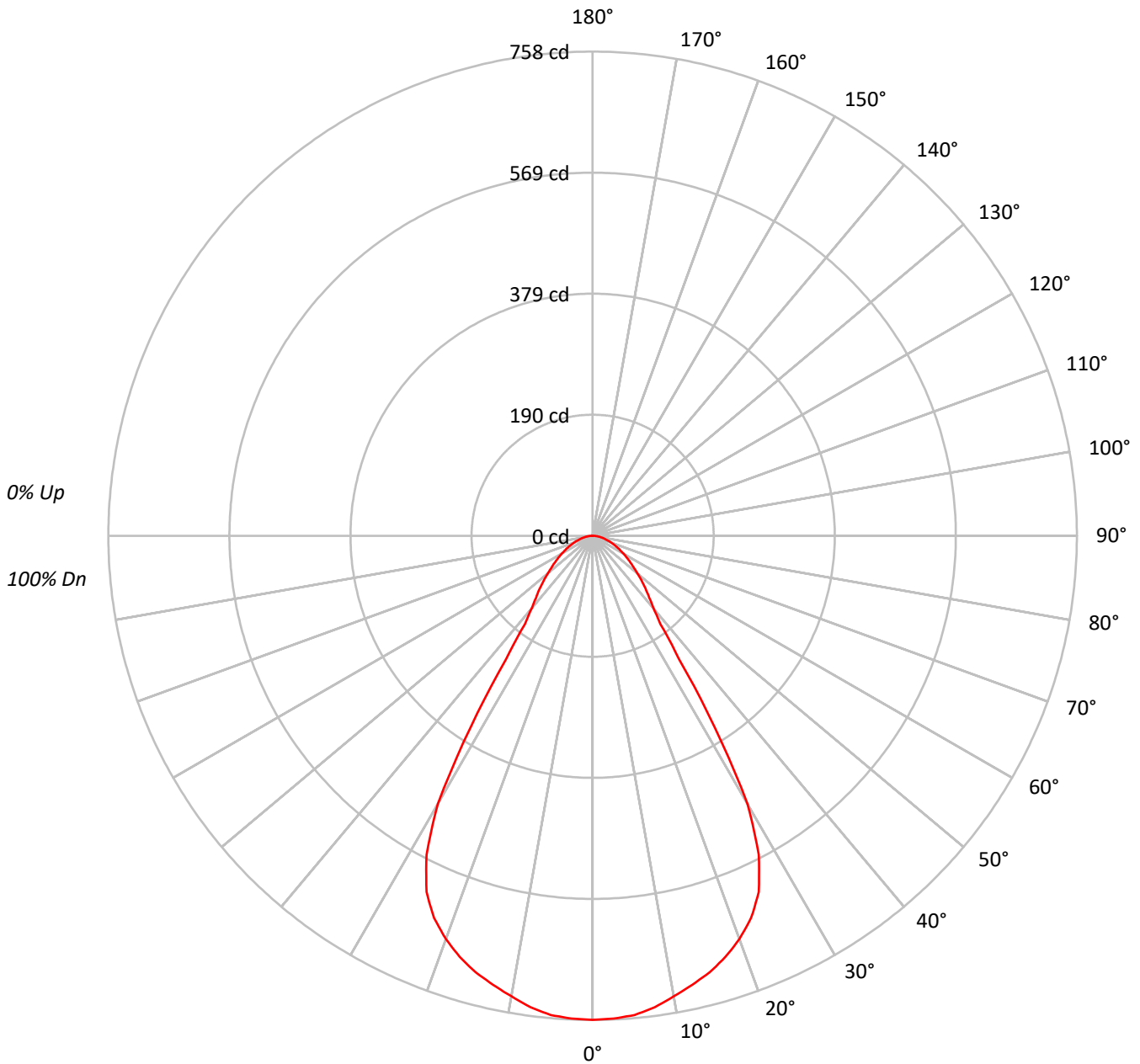
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	23371
5°	23312
10°	22920
15°	22586
20°	22045
25°	20928
30°	17262
35°	8888
40°	5950
45°	5102
50°	4399
55°	3839
60°	3410
65°	3072
70°	2777
75°	2502
80°	2237
85°	2229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.2	7.6
10°-20°	199.1	21.2
20°-30°	275.8	29.4
30°-40°	165.7	17.7
40°-50°	90.7	9.7
50°-60°	64.4	6.9
60°-70°	41.8	4.5
70°-80°	22.3	2.4
80°-90°	6.7	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°	546.0	58.2
0°-40°	711.7	75.9
0°-60°	866.8	92.4
0°-90°	937.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	937.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	758	
5°	753	71
15°	708	199
25°	615	276
35°	236	166
45°	117	91
55°	71	64
65°	42	42
75°	21	22
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	757.9
2.5°	756.5
5°	753.1
7.5°	744.6
10°	732.0
12.5°	720.1
15°	707.5
17.5°	691.4
20°	671.8
22.5°	647.9
25°	615.1
27.5°	563.1
30°	484.8
32.5°	355.2
35°	236.1
37.5°	174.4
40°	147.8
42.5°	131.0
45°	117.0
47.5°	103.6
50°	91.7
52.5°	80.5
55°	71.4
57.5°	63.0
60°	55.3
62.5°	48.3
65°	42.1
67.5°	35.7
70°	30.8
72.5°	25.2
75°	21.0
77.5°	16.8
80°	12.6
82.5°	9.1
85°	6.3
87.5°	2.8
90°	0.0



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— 0°-180°







(END OF REPORT)