

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: P583649

Luminaire Tested: **HC807D010-HM80520930-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583649
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: HC807D010-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: 753.6 lumens
Efficiency: N/A
Efficacy: 94.2 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

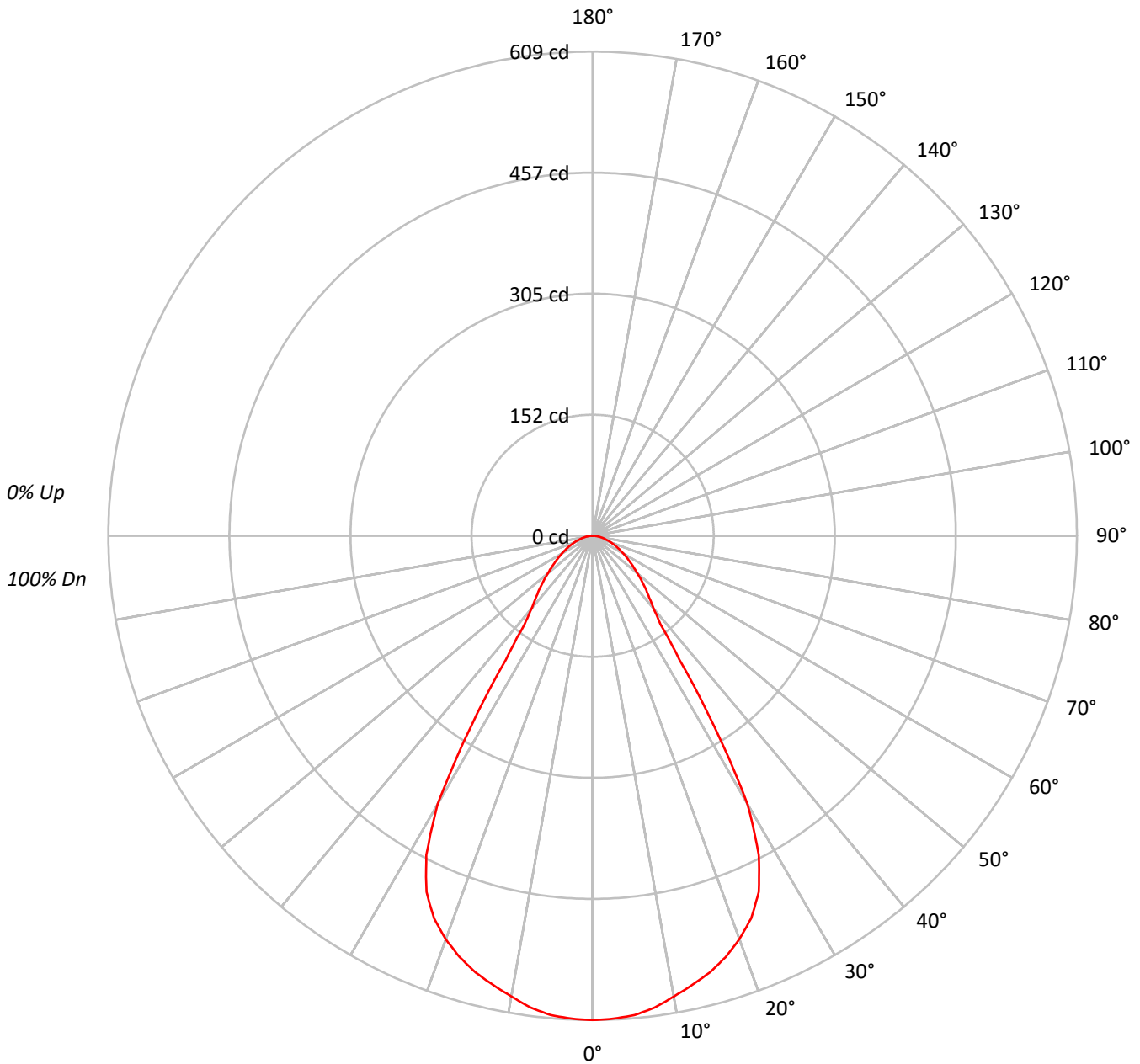
Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	75	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	55	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°	18782
5°	18730
10°	18421
15°	18152
20°	17717
25°	16818
30°	13872
35°	7145
40°	4782
45°	4099
50°	3536
55°	3091
60°	2744
65°	2466
70°	2227
75°	2002
80°	1811
85°	1769



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	7.6
10°-20°	160.0	21.2
20°-30°	221.7	29.4
30°-40°	133.2	17.7
40°-50°	72.9	9.7
50°-60°	51.8	6.9
60°-70°	33.6	4.5
70°-80°	17.9	2.4
80°-90°	5.4	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°	438.9	58.2
0°-40°	572.0	75.9
0°-60°	696.7	92.4
0°-90°	753.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	753.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	609	
5°	605	57
15°	569	160
25°	494	222
35°	190	133
45°	94	73
55°	58	52
65°	34	34
75°	17	18
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	609.1
2.5°	608.0
5°	605.1
7.5°	598.5
10°	588.3
12.5°	578.7
15°	568.6
17.5°	555.7
20°	539.9
22.5°	520.8
25°	494.3
27.5°	452.7
30°	389.6
32.5°	285.4
35°	189.8
37.5°	140.2
40°	118.8
42.5°	105.3
45°	94.0
47.5°	83.3
50°	73.7
52.5°	64.8
55°	57.5
57.5°	50.7
60°	44.5
62.5°	38.8
65°	33.8
67.5°	28.7
70°	24.7
72.5°	20.3
75°	16.8
77.5°	13.5
80°	10.2
82.5°	7.3
85°	5.0
87.5°	2.3
90°	0.0



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— 0°-180°







(END OF REPORT)