

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: P583655

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC807D010-HM80520930-81WDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 895.4 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

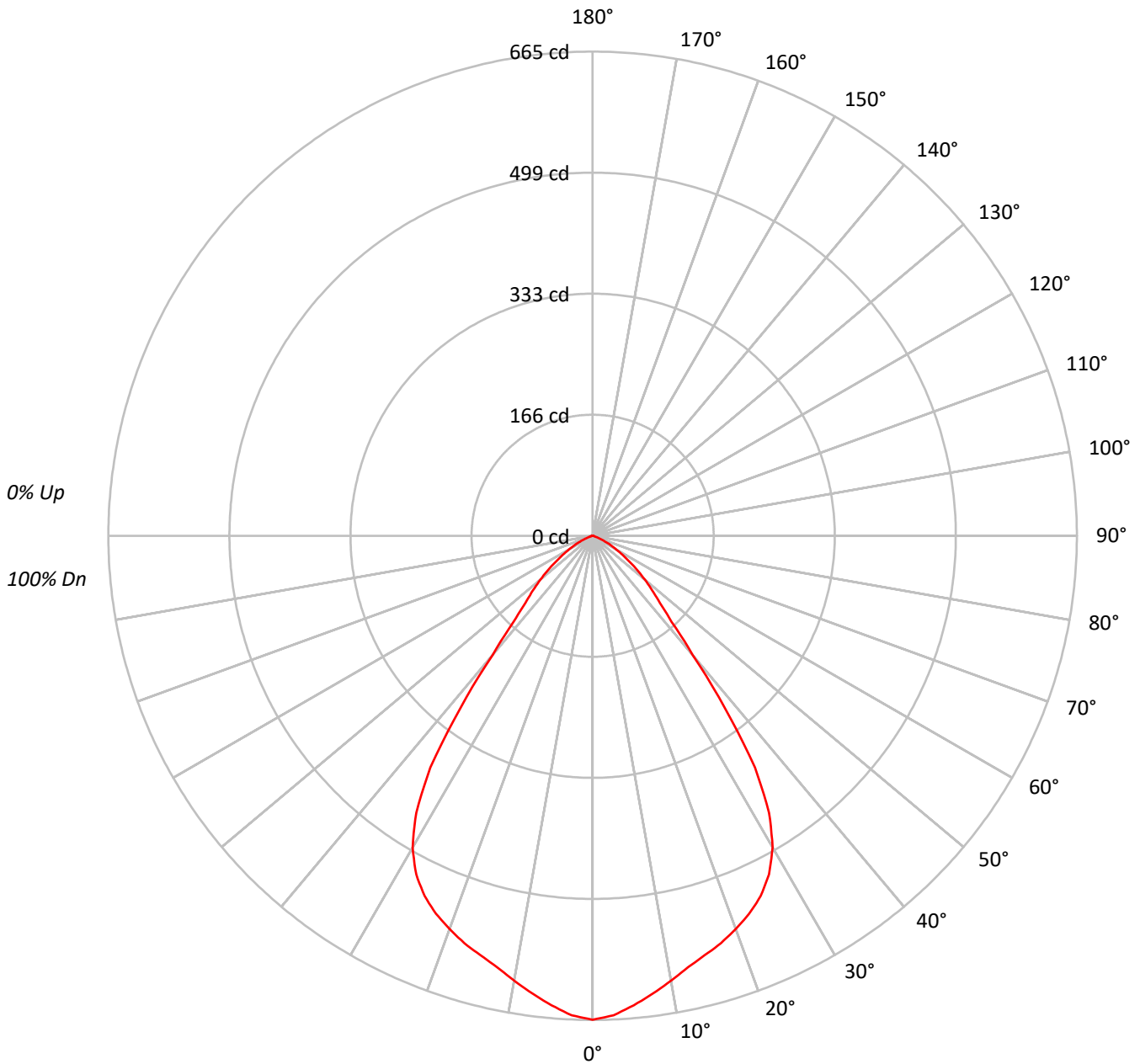
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68			
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62			
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57			
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	20500
5°	20037
10°	19423
15°	19030
20°	18859
25°	18577
30°	17600
35°	14621
40°	8610
45°	5695
50°	4481
55°	3296
60°	2294
65°	1394
70°	613
75°	274
80°	195
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	6.8
10°-20°	168.5	18.8
20°-30°	249.7	27.9
30°-40°	230.7	25.8
40°-50°	106.4	11.9
50°-60°	55.9	6.2
60°-70°	19.8	2.2
70°-80°	3.1	0.3
80°-90°	0.3	0.0
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°	479.2	53.5
0°-40°	709.9	79.3
0°-60°	872.2	97.4
0°-90°	895.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	895.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	665	
5°	647	61
15°	596	169
25°	546	250
35°	388	231
45°	131	106
55°	61	56
65°	19	20
75°	2	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	664.8
2.5°	659.2
5°	647.3
7.5°	634.3
10°	620.3
12.5°	606.8
15°	596.1
17.5°	586.5
20°	574.7
22.5°	561.8
25°	546.0
27.5°	524.6
30°	494.3
32.5°	450.9
35°	388.4
37.5°	298.3
40°	213.9
42.5°	160.4
45°	130.6
47.5°	110.9
50°	93.4
52.5°	76.6
55°	61.3
57.5°	48.4
60°	37.2
62.5°	28.2
65°	19.1
67.5°	11.2
70°	6.8
72.5°	3.9
75°	2.3
77.5°	1.7
80°	1.1
82.5°	0.6
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)