

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: P583921

Luminaire Tested: **HC815D010-HM80520930-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583921
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: HC815D010-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: 1287.1 lumens
Efficiency: N/A
Efficacy: 91.9 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

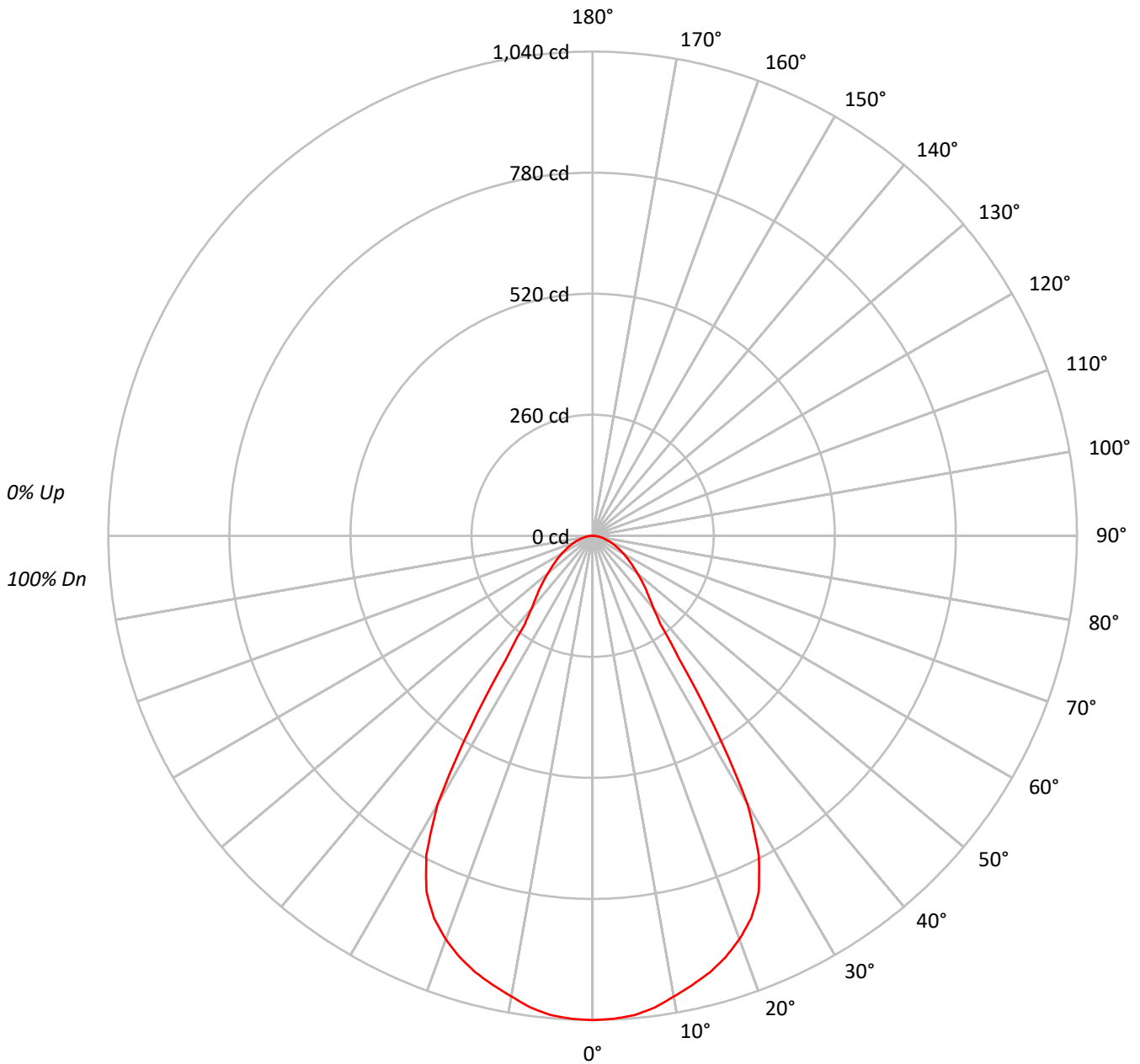
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	32082
5°	31994
10°	31462
15°	31001
20°	30259
25°	28723
30°	23693
35°	12197
40°	8168
45°	7004
50°	6040
55°	5274
60°	4681
65°	4210
70°	3814
75°	3431
80°	3090
85°	3078



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	7.6
10°-20°	273.2	21.2
20°-30°	378.6	29.4
30°-40°	227.4	17.7
40°-50°	124.5	9.7
50°-60°	88.4	6.9
60°-70°	57.4	4.5
70°-80°	30.7	2.4
80°-90°	9.2	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°	749.5	58.2
0°-40°	976.9	75.9
0°-60°	1189.8	92.4
0°-90°	1287.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1287.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1040	
5°	1034	98
15°	971	273
25°	844	379
35°	324	227
45°	161	124
55°	98	88
65°	58	57
75°	29	31
85°	9	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1040.4
2.5°	1038.5
5°	1033.6
7.5°	1022.1
10°	1004.8
12.5°	988.5
15°	971.1
17.5°	949.1
20°	922.1
22.5°	889.4
25°	844.2
27.5°	773.1
30°	665.4
32.5°	487.5
35°	324.0
37.5°	239.4
40°	202.9
42.5°	179.8
45°	160.6
47.5°	142.3
50°	125.9
52.5°	110.6
55°	98.1
57.5°	86.5
60°	75.9
62.5°	66.4
65°	57.7
67.5°	49.0
70°	42.3
72.5°	34.6
75°	28.8
77.5°	23.1
80°	17.4
82.5°	12.5
85°	8.7
87.5°	3.9
90°	0.0



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— 0°-180°







(END OF REPORT)