

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: P583848

Luminaire Tested: **HC815D010-HM80520830-81MDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC815D010-HM80520830-81MDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1718.1 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.67
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

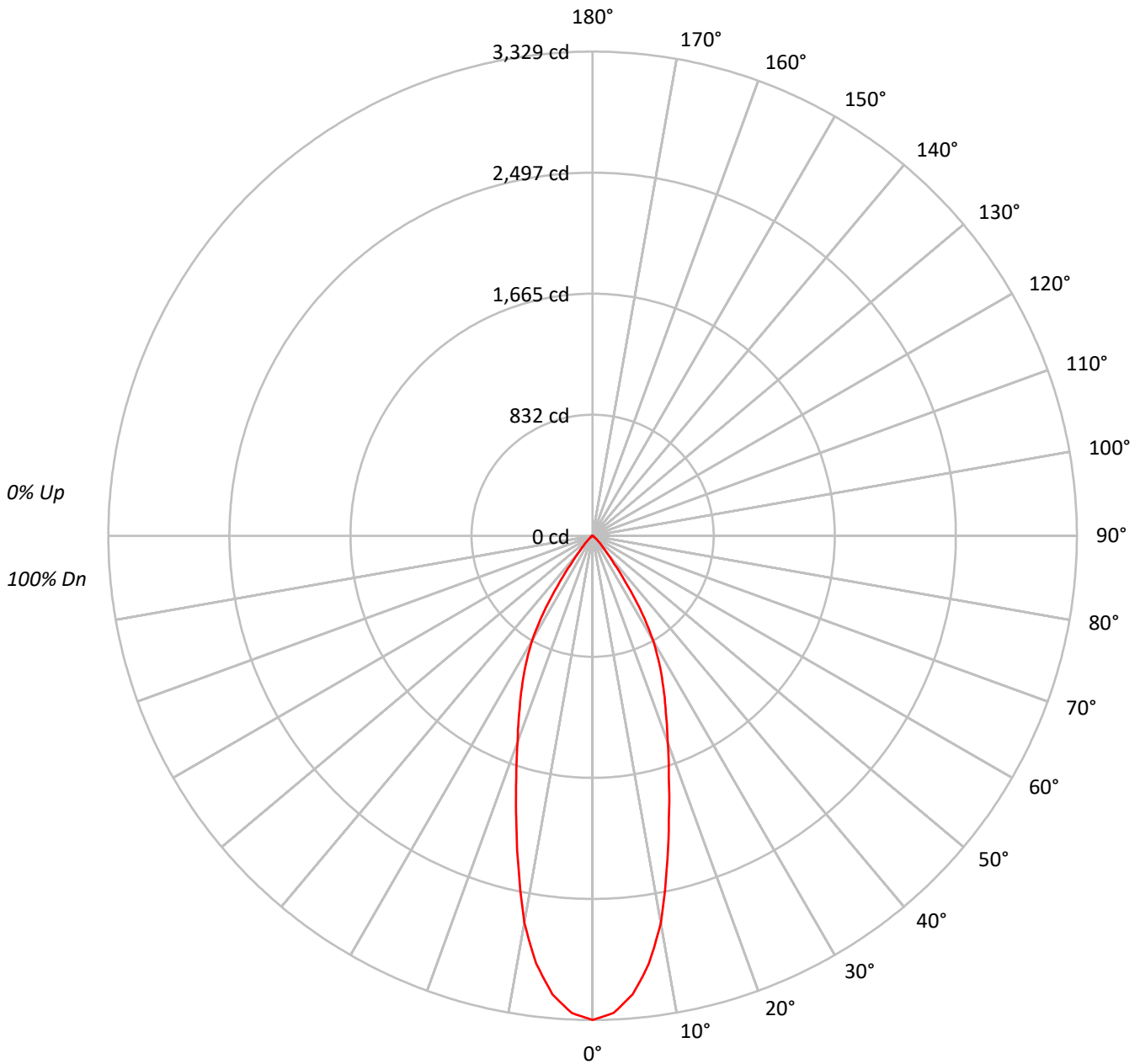
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95		
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89		
3	104	98	94	90	102	97	93	90	94	91	88	92	89	87	90	87	85	84		
4	100	93	88	84	98	92	87	83	90	86	82	88	84	82	86	83	81	79		
5	95	88	82	78	94	87	82	78	85	81	77	83	80	77	82	79	76	75		
6	91	83	78	74	90	82	77	73	81	76	73	79	76	73	78	75	72	71		
7	87	79	73	70	86	78	73	69	77	72	69	76	72	69	75	71	68	67		
8	84	75	70	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64		
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	65	62	61		
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	62	59	58		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	102657
5°	97948
10°	84567
15°	64662
20°	49476
25°	39141
30°	29568
35°	15732
40°	5990
45°	2874
50°	1223
55°	511
60°	191
65°	161
70°	99
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.2	16.7
10°-20°	565.5	32.9
20°-30°	526.6	30.7
30°-40°	271.7	15.8
40°-50°	55.3	3.2
50°-60°	9.4	0.5
60°-70°	1.9	0.1
70°-80°	0.4	0.0
80°-90°	0.0	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°	1379.3	80.3
0°-40°	1651.0	96.1
0°-60°	1715.8	99.9
0°-90°	1718.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1718.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3329	
5°	3164	287
15°	2026	565
25°	1150	527
35°	418	272
45°	66	55
55°	10	9
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3329.1
2.5°	3284.5
5°	3164.3
7.5°	2966.6
10°	2700.8
12.5°	2351.9
15°	2025.5
17.5°	1742.7
20°	1507.7
22.5°	1316.3
25°	1150.4
27.5°	993.0
30°	830.4
32.5°	636.8
35°	417.9
37.5°	242.4
40°	148.8
42.5°	97.8
45°	65.9
47.5°	41.5
50°	25.5
52.5°	14.9
55°	9.5
57.5°	4.2
60°	3.1
62.5°	2.2
65°	2.2
67.5°	1.1
70°	1.1
72.5°	1.1
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)