

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: P593571

Luminaire Tested: **HC815D010-HM80520950-81WDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593571  
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: HC815D010-HM80520950-81WDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1663.0 lumens  
Efficiency: N/A  
Efficacy: 118.8 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

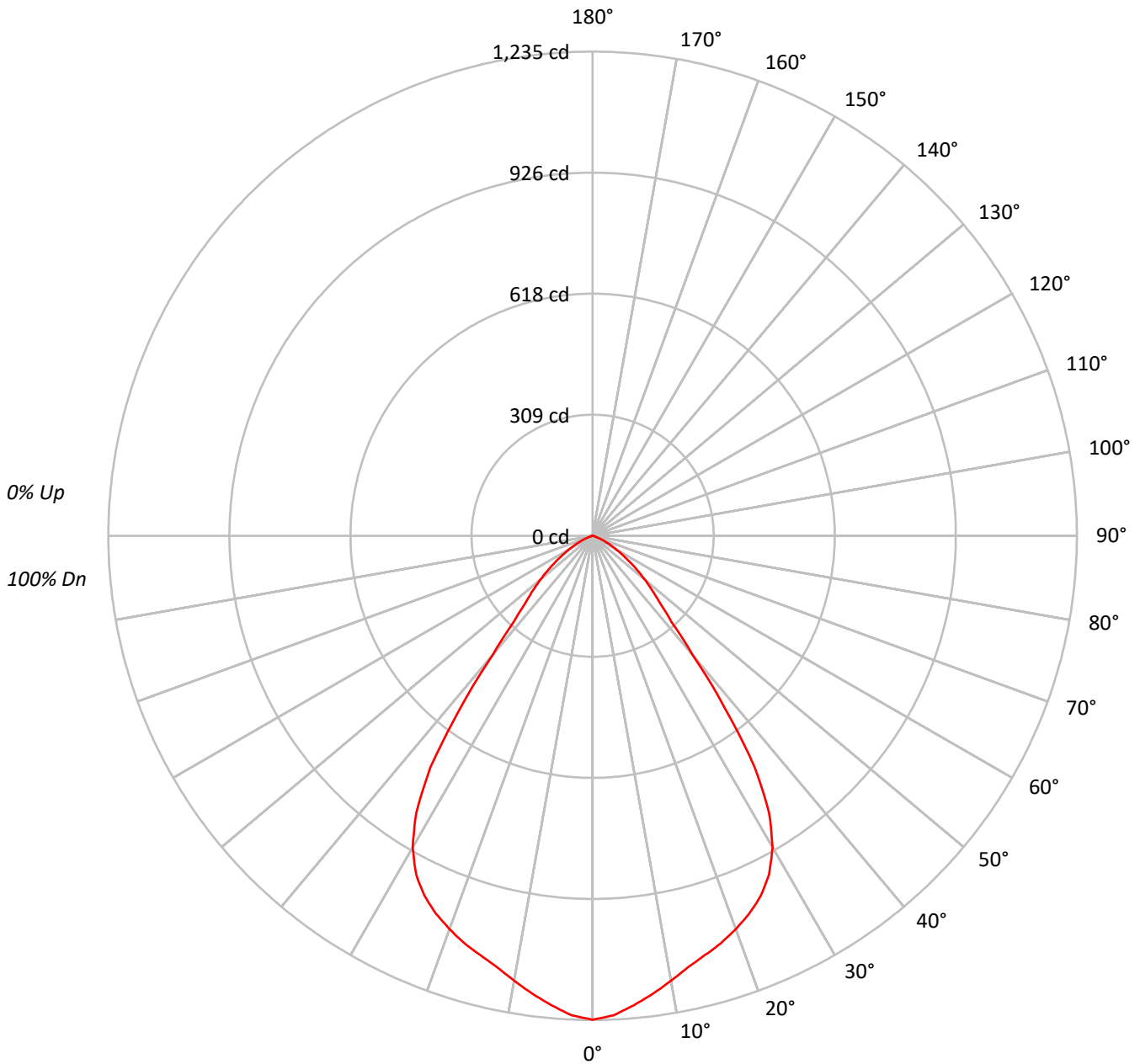
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P593571

CATALOG NUMBER: HC815D010-HM80520950-81WDH

### Luminous Intensity Polar Plot





TEST NUMBER: P593571

CATALOG NUMBER: HC815D010-HM80520950-81WDH

**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	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°	38071
5°	37213
10°	36075
15°	35346
20°	35027
25°	34504
30°	32680
35°	27153
40°	15993
45°	10580
50°	8323
55°	6129
60°	4255
65°	2590
70°	1127
75°	500
80°	355
85°	0



TEST NUMBER: P593571

CATALOG NUMBER: HC815D010-HM80520950-81WDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.2	6.8
10°-20°	313.0	18.8
20°-30°	463.7	27.9
30°-40°	428.5	25.8
40°-50°	197.6	11.9
50°-60°	103.9	6.2
60°-70°	36.7	2.2
70°-80°	5.8	0.3
80°-90°	0.6	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°	889.9	53.5
0°-40°	1318.4	79.3
0°-60°	1619.9	97.4
0°-90°	1663.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1663.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1235	
5°	1202	113
15°	1107	313
25°	1014	464
35°	721	428
45°	243	198
55°	114	104
65°	36	37
75°	4	6
85°	0	1
90°	0	



TEST NUMBER: P593571

CATALOG NUMBER: HC815D010-HM80520950-81WDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1234.6
2.5°	1224.2
5°	1202.2
7.5°	1178.2
10°	1152.1
12.5°	1127.0
15°	1107.2
17.5°	1089.3
20°	1067.4
22.5°	1043.3
25°	1014.1
27.5°	974.4
30°	917.8
32.5°	837.4
35°	721.3
37.5°	554.1
40°	397.3
42.5°	298.0
45°	242.6
47.5°	205.9
50°	173.5
52.5°	142.2
55°	114.0
57.5°	89.9
60°	69.0
62.5°	52.3
65°	35.5
67.5°	21.0
70°	12.5
72.5°	7.4
75°	4.2
77.5°	3.1
80°	2.0
82.5°	1.1
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)