

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: P585300

Luminaire Tested: **HC880D010-HM86080935-81WDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585300  
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: HC880D010-HM86080935-81WDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7020.0 lumens  
Efficiency: N/A  
Efficacy: 100.3 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

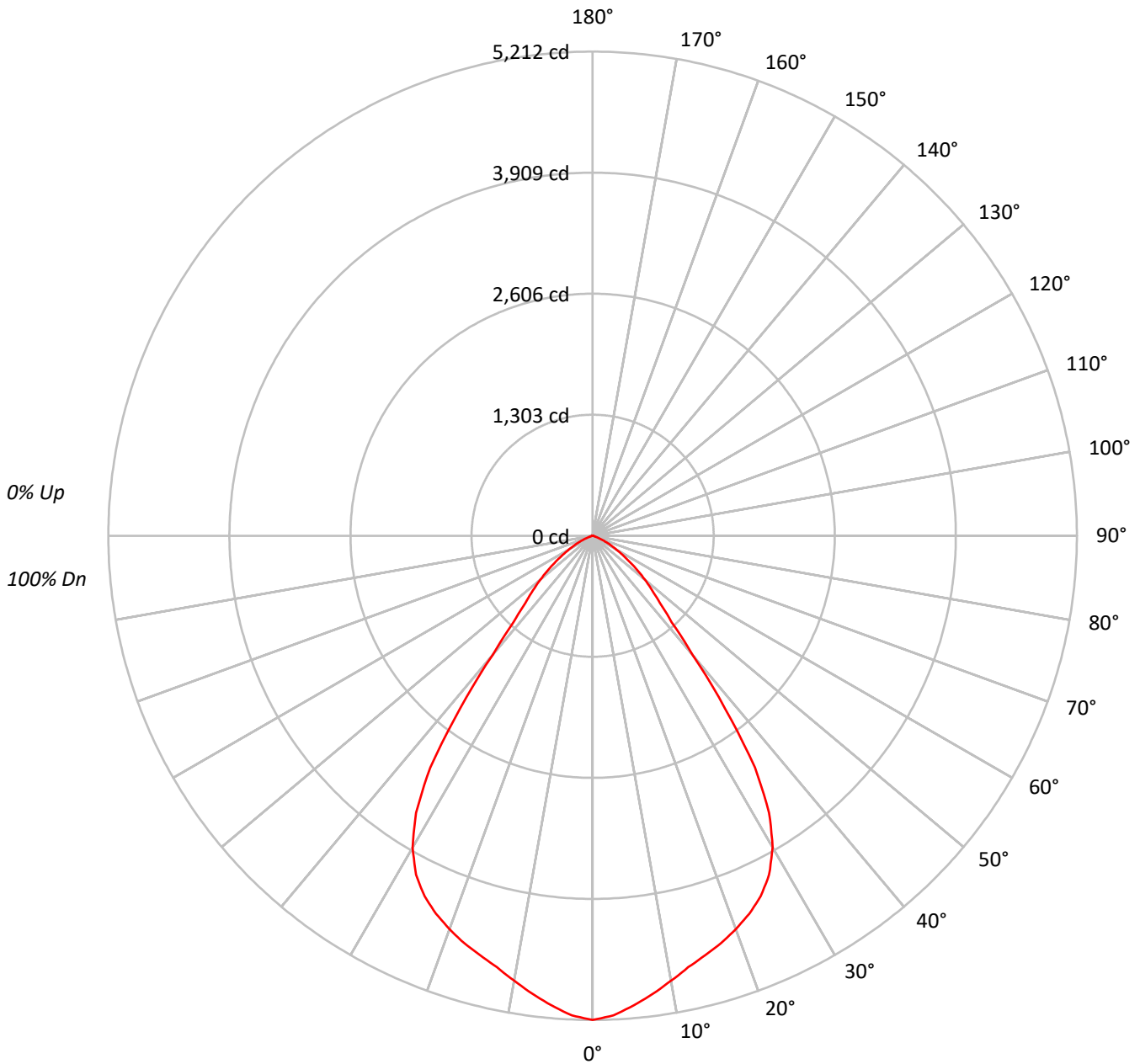
Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P585300

CATALOG NUMBER: HC880D010-HM86080935-81WDH

### Luminous Intensity Polar Plot





TEST NUMBER: P585300

CATALOG NUMBER: HC880D010-HM86080935-81WDH

**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	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°	160716
5°	157095
10°	152277
15°	149197
20°	147859
25°	145650
30°	137965
35°	114627
40°	67506
45°	44647
50°	35140
55°	25865
60°	17965
65°	10952
70°	4769
75°	2097
80°	1563
85°	0



TEST NUMBER: P585300

CATALOG NUMBER: HC880D010-HM86080935-81WDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	477.9	6.8
10°-20°	1321.3	18.8
20°-30°	1957.6	27.9
30°-40°	1808.8	25.8
40°-50°	834.0	11.9
50°-60°	438.7	6.2
60°-70°	155.0	2.2
70°-80°	24.3	0.3
80°-90°	2.4	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°	3756.7	53.5
0°-40°	5565.6	79.3
0°-60°	6838.2	97.4
0°-90°	7020.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7020.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5212	
5°	5075	478
15°	4674	1321
25°	4281	1958
35°	3045	1809
45°	1024	834
55°	481	439
65°	150	155
75°	18	24
85°	0	2
90°	0	



TEST NUMBER: P585300

CATALOG NUMBER: HC880D010-HM86080935-81WDH

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5211.9
2.5°	5167.8
5°	5075.1
7.5°	4973.6
10°	4863.2
12.5°	4757.3
15°	4673.5
17.5°	4598.5
20°	4505.8
22.5°	4404.3
25°	4280.8
27.5°	4113.0
30°	3874.7
32.5°	3534.9
35°	3045.0
37.5°	2339.0
40°	1677.0
42.5°	1257.7
45°	1023.8
47.5°	869.4
50°	732.5
52.5°	600.2
55°	481.1
57.5°	379.5
60°	291.3
62.5°	220.7
65°	150.1
67.5°	88.2
70°	52.9
72.5°	30.9
75°	17.6
77.5°	13.2
80°	8.8
82.5°	4.4
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)