

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: P583529

Luminaire Tested: **HC805D010-HM80520935-81NDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583529  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC805D010-HM80520935-81NDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 610.0 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

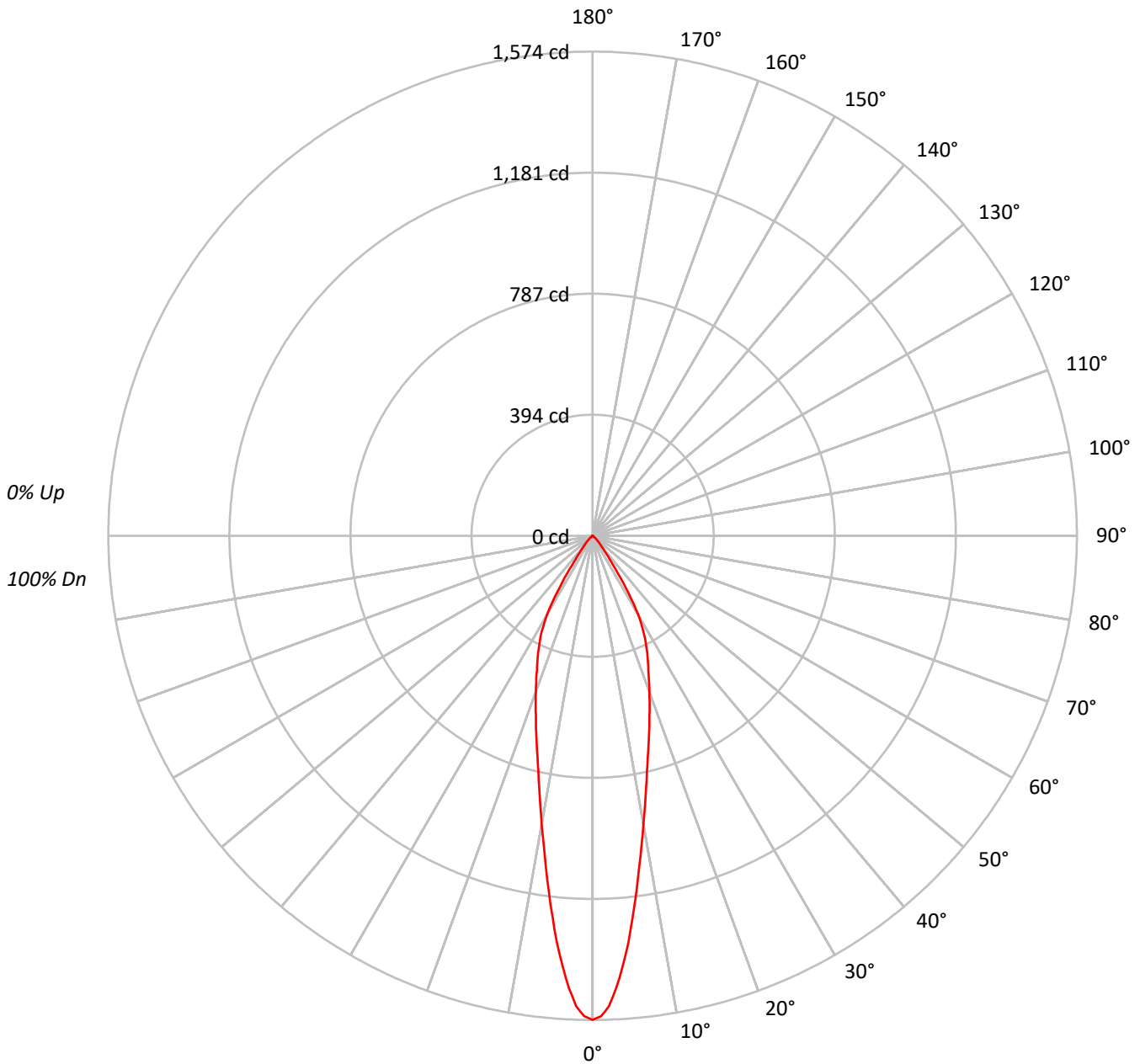
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P583529

CATALOG NUMBER: HC805D010-HM80520935-81NDH

### Luminous Intensity Polar Plot





TEST NUMBER: P583529

CATALOG NUMBER: HC805D010-HM80520935-81NDH

**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	100	100	100
1	114	112	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95	95	95	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89	89	89	89
3	104	99	94	91	102	97	93	90	95	91	88	92	89	87	90	88	86	84	84	84	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80	80	80	80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75	75	75	75
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72	72	72	72
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68	68	68	68
8	84	76	70	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65	65	65	65
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62	62	62	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59	59	59	59

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	48530
5°	41116
10°	29831
15°	22404
20°	17674
25°	14260
30°	10565
35°	4280
40°	1807
45°	964
50°	437
55°	220
60°	142
65°	95
70°	90
75°	60
80°	89
85°	177



TEST NUMBER: P583529

CATALOG NUMBER: HC805D010-HM80520935-81NDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.0	18.7
10°-20°	197.1	32.3
20°-30°	190.5	31.2
30°-40°	83.7	13.7
40°-50°	18.1	3.0
50°-60°	4.1	0.7
60°-70°	1.4	0.2
70°-80°	0.6	0.1
80°-90°	0.5	0.1
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°	501.7	82.2
0°-40°	585.4	96.0
0°-60°	607.5	99.6
0°-90°	610.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	610.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1574	
5°	1328	114
15°	702	197
25°	419	191
35°	114	84
45°	22	18
55°	4	4
65°	1	1
75°	0	1
85°	0	0
90°	0	



TEST NUMBER: P583529

CATALOG NUMBER: HC805D010-HM80520935-81NDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1573.8
1°	1562.1
2°	1529.9
3°	1472.0
4°	1402.5
5°	1328.3
6°	1247.2
7°	1165.6
8°	1089.0
9°	1017.9
10°	952.7
11°	891.2
12°	835.9
13°	785.6
14°	741.2
15°	701.8
17.5°	613.5
20°	538.6
22.5°	472.9
25°	419.1
27.5°	364.2
30°	296.7
32.5°	201.6
35°	113.7
37.5°	67.0
40°	44.9
42.5°	31.7
45°	22.1
47.5°	14.5
50°	9.1
52.5°	5.4
55°	4.1
57.5°	3.1
60°	2.3
62.5°	1.8
65°	1.3
67.5°	1.0
70°	1.0
72.5°	0.5
75°	0.5
77.5°	0.5
80°	0.5
82.5°	0.5



TEST NUMBER: P583529

CATALOG NUMBER: HC805D010-HM80520935-81NDH

**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







85°		0.5
87.5°		0.5



(END OF REPORT)