

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: P583650

Luminaire Tested: **HC807D010-HM80520930-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC807D010-HM80520930-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 836.9 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

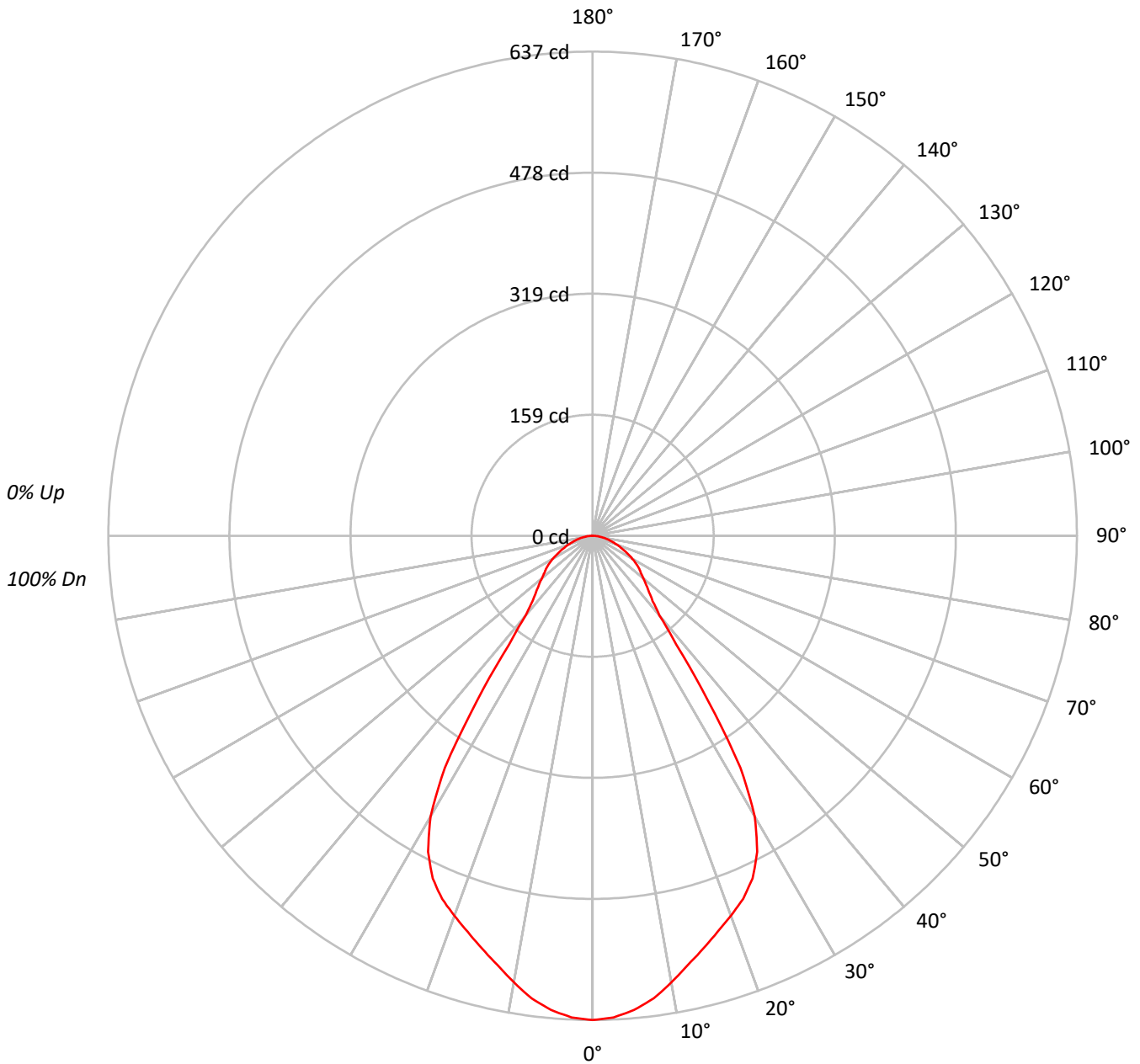
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583650

CATALOG NUMBER: HC807D010-HM80520930-81PSMDW

Luminous Intensity Polar Plot





TEST NUMBER: P583650

CATALOG NUMBER: HC807D010-HM80520930-81PSMDW

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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19646
5°	19387
10°	18678
15°	17945
20°	17451
25°	16927
30°	15186
35°	9957
40°	5503
45°	4592
50°	4183
55°	3994
60°	3713
65°	3364
70°	3047
75°	2752
80°	2504
85°	2406



TEST NUMBER: P583650

CATALOG NUMBER: HC807D010-HM80520930-81PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.8	7.0
10°-20°	158.6	19.0
20°-30°	225.7	27.0
30°-40°	167.1	20.0
40°-50°	82.7	9.9
50°-60°	66.0	7.9
60°-70°	45.8	5.5
70°-80°	24.7	3.0
80°-90°	7.3	0.9
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°	443.2	53.0
0°-40°	610.3	72.9
0°-60°	759.0	90.7
0°-90°	836.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	836.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	637	
5°	626	59
15°	562	159
25°	498	226
35°	264	167
45°	105	83
55°	74	66
65°	46	46
75°	23	25
85°	7	7
90°	0	



TEST NUMBER: P583650

CATALOG NUMBER: HC807D010-HM80520930-81PSMDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	637.1
2.5°	634.2
5°	626.3
7.5°	614.0
10°	596.5
12.5°	578.5
15°	562.1
17.5°	546.5
20°	531.8
22.5°	517.2
25°	497.5
27.5°	468.8
30°	426.5
32.5°	361.8
35°	264.5
37.5°	180.7
40°	136.7
42.5°	117.0
45°	105.3
47.5°	95.7
50°	87.2
52.5°	79.9
55°	74.3
57.5°	67.5
60°	60.2
62.5°	52.9
65°	46.1
67.5°	39.4
70°	33.8
72.5°	28.1
75°	23.1
77.5°	18.5
80°	14.1
82.5°	10.2
85°	6.8
87.5°	2.9
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)