

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: P583470

Luminaire Tested: **HC805D010-HM80520835-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583470
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC805D010-HM80520835-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 808.4 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

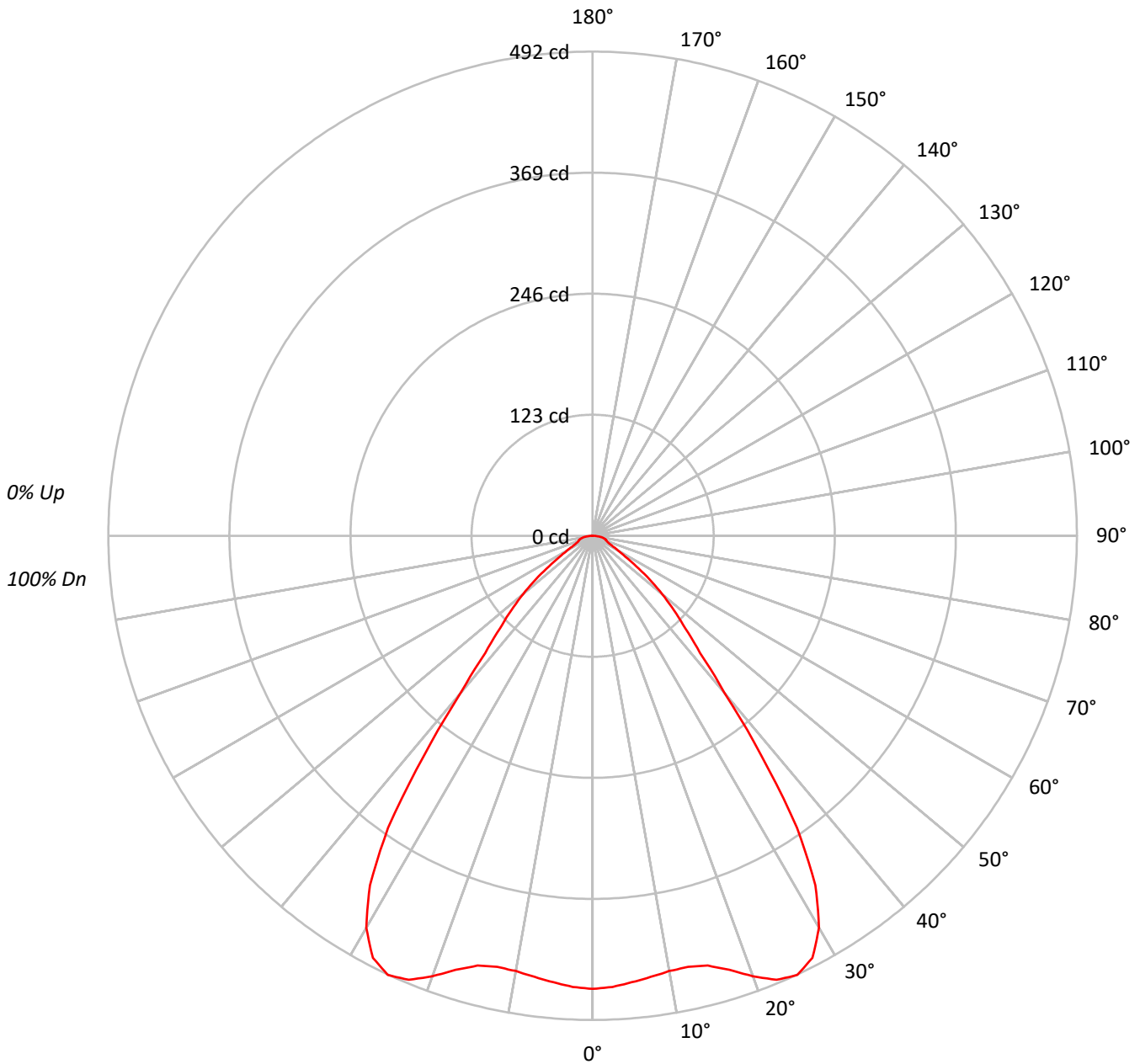
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583470

CATALOG NUMBER: HC805D010-HM80520835-81WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P583470

CATALOG NUMBER: HC805D010-HM80520835-81WDWB

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	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	14197
5°	14100
10°	14062
15°	14433
20°	15627
25°	16750
30°	16376
35°	13635
40°	8381
45°	5800
50°	4428
55°	2903
60°	1813
65°	1364
70°	1370
75°	1585
80°	1740
85°	1557



TEST NUMBER: P583470

CATALOG NUMBER: HC805D010-HM80520835-81WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.3	5.4
10°-20°	129.8	16.1
20°-30°	223.4	27.6
30°-40°	216.4	26.8
40°-50°	106.6	13.2
50°-60°	50.3	6.2
60°-70°	19.8	2.5
70°-80°	13.7	1.7
80°-90°	5.1	0.6
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°	396.5	49.0
0°-40°	612.9	75.8
0°-60°	769.9	95.2
0°-90°	808.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	808.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	460	
5°	456	43
15°	452	130
25°	492	223
35°	362	216
45°	133	107
55°	54	50
65°	19	20
75°	13	14
85°	4	5
90°	0	



TEST NUMBER: P583470

CATALOG NUMBER: HC805D010-HM80520835-81WDWB

CANDELA DISTRIBUTION (FULL):

0°	
0°	460.4
2.5°	458.9
5°	455.5
7.5°	452.1
10°	449.1
12.5°	448.6
15°	452.1
17.5°	462.4
20°	476.2
22.5°	488.4
25°	492.3
27.5°	483.5
30°	459.9
32.5°	421.1
35°	362.2
37.5°	281.3
40°	208.2
42.5°	161.5
45°	133.0
47.5°	111.9
50°	92.3
52.5°	72.7
55°	54.0
57.5°	39.3
60°	29.4
62.5°	23.1
65°	18.7
67.5°	16.2
70°	15.2
72.5°	14.2
75°	13.3
77.5°	11.7
80°	9.8
82.5°	7.4
85°	4.4
87.5°	1.9
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)