

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: P593809

Luminaire Tested: **HC850D010-HM82555950-81WDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593809
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: HC850D010-HM82555950-81WDH
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: 5888.7 lumens
Efficiency: N/A
Efficacy: 122.7 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

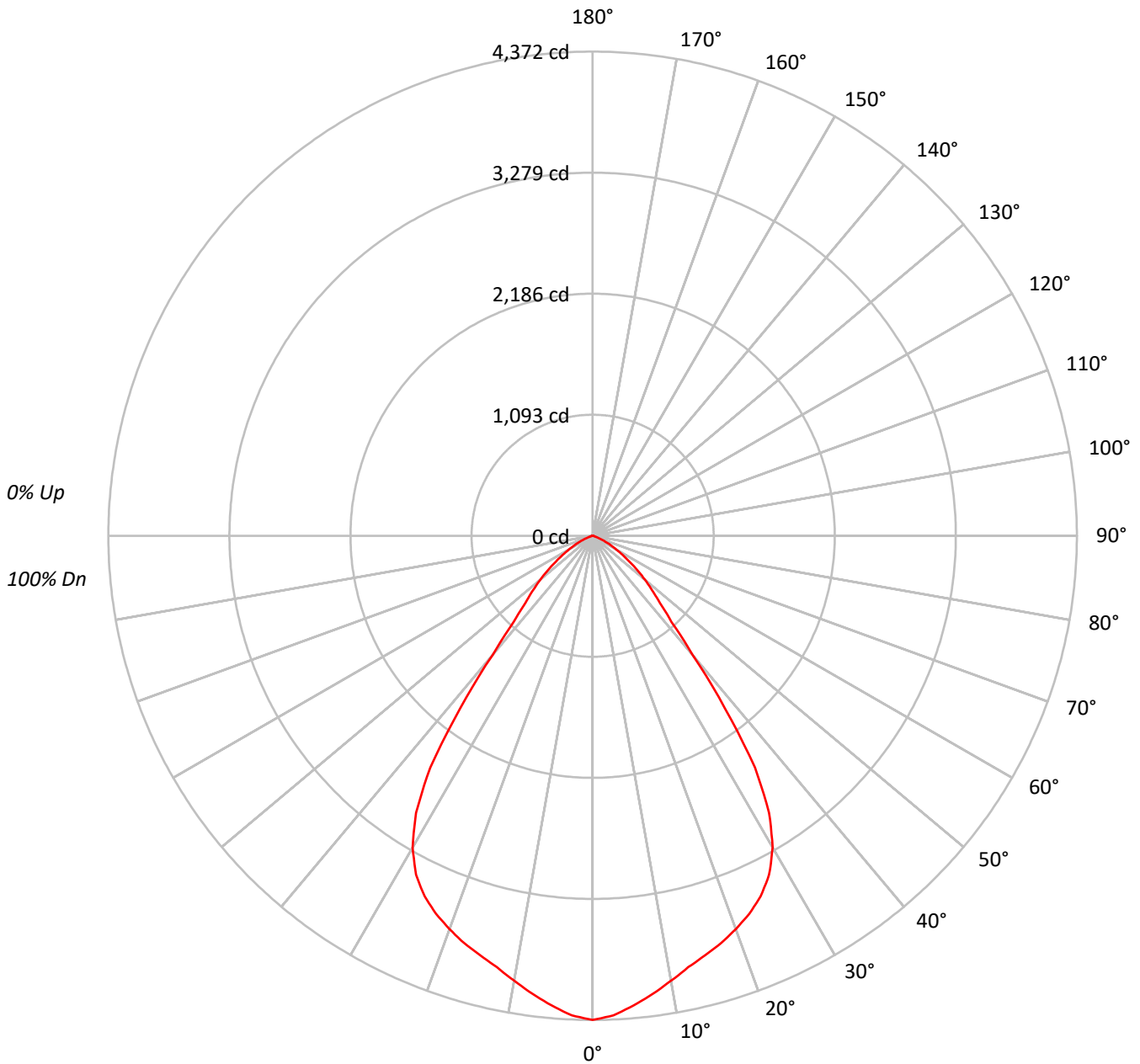
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P593809

CATALOG NUMBER: HC850D010-HM82555950-81WDH

Luminous Intensity Polar Plot





TEST NUMBER: P593809

CATALOG NUMBER: HC850D010-HM82555950-81WDH

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°	134813
5°	131775
10°	127737
15°	125155
20°	124029
25°	122174
30°	115732
35°	96155
40°	56629
45°	37456
50°	29479
55°	21693
60°	15067
65°	9186
70°	4003
75°	1763
80°	1314
85°	0



TEST NUMBER: P593809

CATALOG NUMBER: HC850D010-HM82555950-81WDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.9	6.8
10°-20°	1108.3	18.8
20°-30°	1642.1	27.9
30°-40°	1517.3	25.8
40°-50°	699.6	11.9
50°-60°	368.0	6.2
60°-70°	130.0	2.2
70°-80°	20.4	0.3
80°-90°	2.0	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°	3151.3	53.5
0°-40°	4668.6	79.3
0°-60°	5736.2	97.4
0°-90°	5888.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5888.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4372	
5°	4257	401
15°	3920	1108
25°	3591	1642
35°	2554	1517
45°	859	700
55°	404	368
65°	126	130
75°	15	20
85°	0	2
90°	0	



TEST NUMBER: P593809

CATALOG NUMBER: HC850D010-HM82555950-81WDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	4371.9
2.5°	4334.9
5°	4257.1
7.5°	4172.0
10°	4079.5
12.5°	3990.6
15°	3920.4
17.5°	3857.3
20°	3779.6
22.5°	3694.5
25°	3590.8
27.5°	3450.2
30°	3250.3
32.5°	2965.2
35°	2554.3
37.5°	1962.0
40°	1406.8
42.5°	1055.0
45°	858.9
47.5°	729.2
50°	614.5
52.5°	503.5
55°	403.5
57.5°	318.3
60°	244.3
62.5°	185.1
65°	125.9
67.5°	74.0
70°	44.4
72.5°	26.0
75°	14.8
77.5°	11.1
80°	7.4
82.5°	3.7
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)