

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: P585205

Luminaire Tested: **HC880D010-HM86080830-81MDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC880D010-HM86080830-81MDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6106.8 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

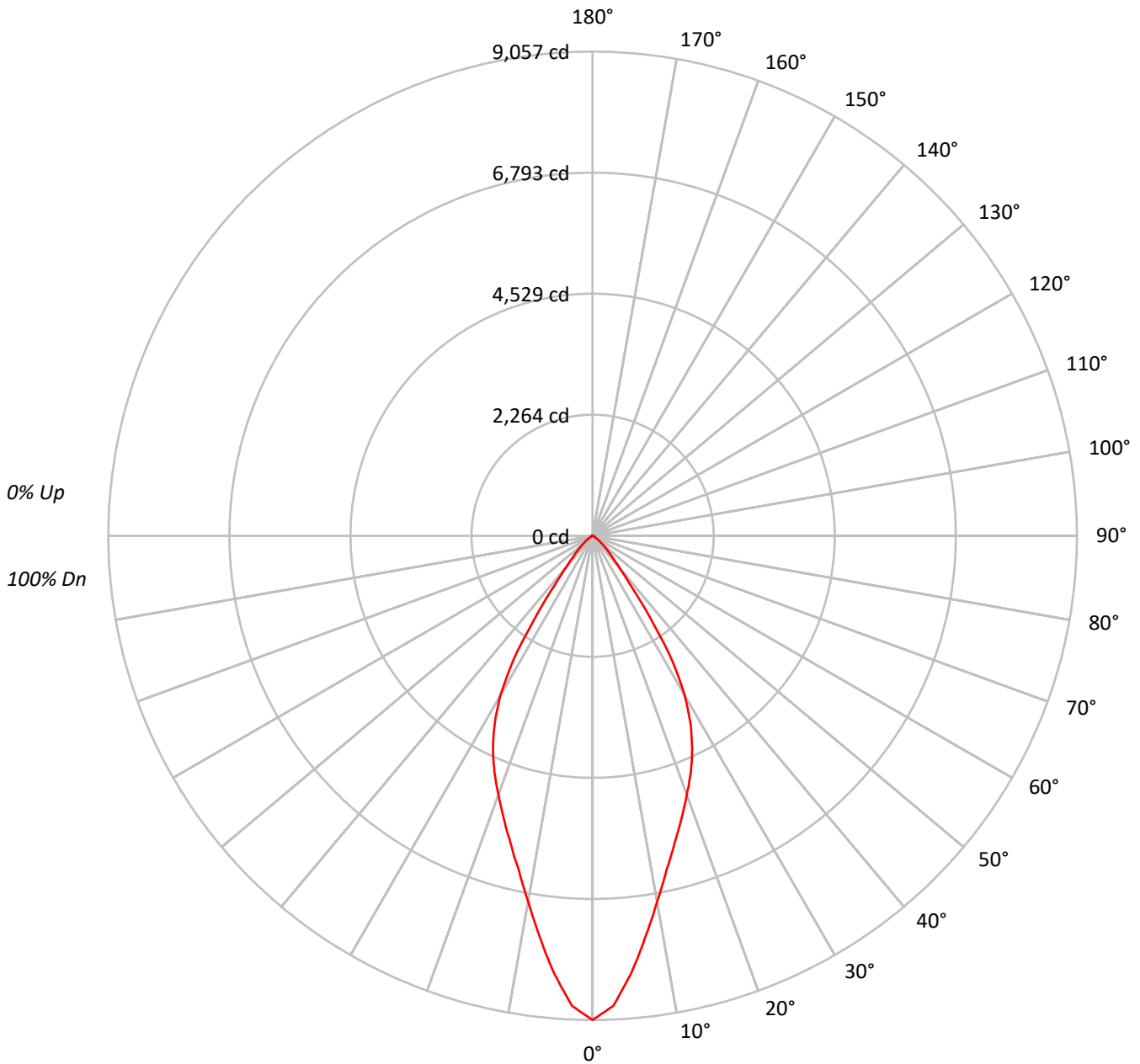
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P585205

CATALOG NUMBER: HC880D010-HM86080830-81MDH

Luminous Intensity Polar Plot





TEST NUMBER: P585205

CATALOG NUMBER: HC880D010-HM86080830-81MDH

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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81			
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76			
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71			
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66			
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58			
9	76	67	61	57	75	66	61	57	65	60	56	64	60	56	63	59	56	55			
10	73	63	57	54	72	63	57	53	62	57	53	61	56	53	60	56	53	52			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	279272
5°	254495
10°	217443
15°	189629
20°	169012
25°	149924
30°	122751
35°	70493
40°	31281
45°	18207
50°	10511
55°	6000
60°	3312
65°	2109
70°	1488
75°	989
80°	746
85°	1486



TEST NUMBER: P585205

CATALOG NUMBER: HC880D010-HM86080830-81MDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	744.2	12.2
10°-20°	1669.7	27.3
20°-30°	1998.6	32.7
30°-40°	1209.1	19.8
40°-50°	338.8	5.5
50°-60°	105.2	1.7
60°-70°	30.0	0.5
70°-80°	8.2	0.1
80°-90°	2.9	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°	4412.5	72.3
0°-40°	5621.6	92.1
0°-60°	6065.7	99.3
0°-90°	6106.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6106.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9057	
5°	8222	744
15°	5940	1670
25°	4406	1999
35°	1873	1209
45°	418	339
55°	112	105
65°	29	30
75°	8	8
85°	4	3
90°	0	



TEST NUMBER: P585205

CATALOG NUMBER: HC880D010-HM86080830-81MDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	9056.6
2.5°	8800.4
5°	8221.7
7.5°	7568.6
10°	6944.4
12.5°	6398.7
15°	5940.0
17.5°	5534.9
20°	5150.4
22.5°	4795.0
25°	4406.4
27.5°	3968.3
30°	3447.4
32.5°	2773.6
35°	1872.6
37.5°	1165.7
40°	777.1
42.5°	558.0
45°	417.5
47.5°	305.9
50°	219.1
52.5°	152.9
55°	111.6
57.5°	74.4
60°	53.7
62.5°	37.2
65°	28.9
67.5°	20.7
70°	16.5
72.5°	8.3
75°	8.3
77.5°	4.2
80°	4.2
82.5°	4.2
85°	4.2
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)