

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: P593900

Luminaire Tested: **HC880D010-HM86080850-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593900  
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: HC880D010-HM86080850-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7743.7 lumens  
Efficiency: N/A  
Efficacy: 110.6 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

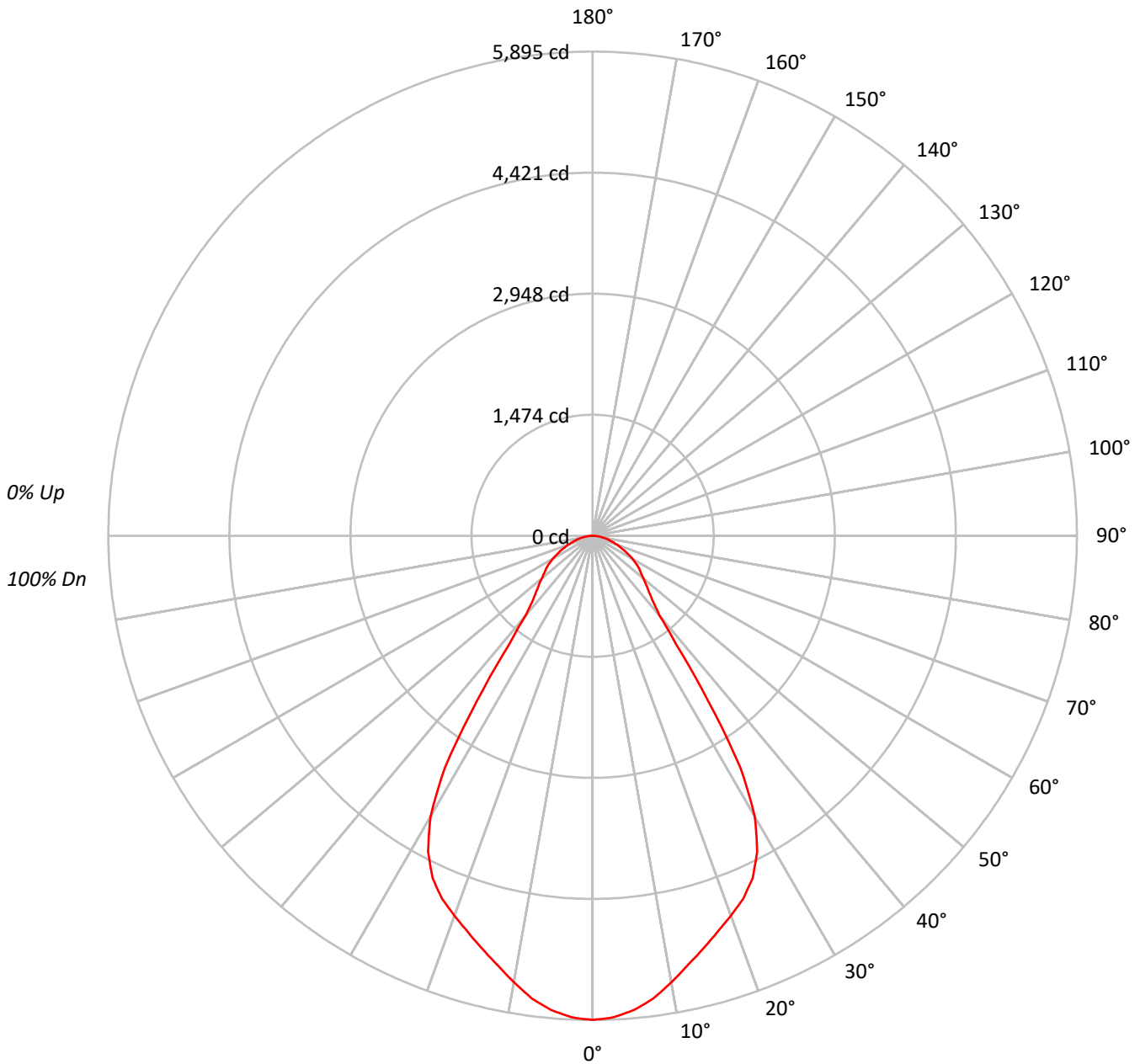
Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P593900

CATALOG NUMBER: HC880D010-HM86080850-81PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P593900

CATALOG NUMBER: HC880D010-HM86080850-81PSMDW

**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			100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49			49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

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

	0°
0°	181771
5°	179404
10°	172833
15°	166072
20°	161481
25°	156620
30°	140543
35°	92130
40°	50933
45°	42467
50°	38719
55°	36956
60°	34364
65°	31156
70°	28175
75°	25437
80°	23121
85°	22113



TEST NUMBER: P593900

CATALOG NUMBER: HC880D010-HM86080850-81PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	544.6	7.0
10°-20°	1467.7	19.0
20°-30°	2088.7	27.0
30°-40°	1545.9	20.0
40°-50°	765.7	9.9
50°-60°	611.1	7.9
60°-70°	424.2	5.5
70°-80°	228.6	3.0
80°-90°	67.3	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°	4100.9	53.0
0°-40°	5646.8	72.9
0°-60°	7023.6	90.7
0°-90°	7743.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7743.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5895	
5°	5796	545
15°	5202	1468
25°	4603	2089
35°	2447	1546
45°	974	766
55°	687	611
65°	427	424
75°	214	229
85°	62	67
90°	0	



TEST NUMBER: P593900

CATALOG NUMBER: HC880D010-HM86080850-81PSMDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5894.7
2.5°	5868.7
5°	5795.8
7.5°	5681.2
10°	5519.7
12.5°	5353.1
15°	5202.1
17.5°	5056.3
20°	4920.9
22.5°	4785.5
25°	4603.2
27.5°	4337.7
30°	3947.1
32.5°	3348.3
35°	2447.4
37.5°	1671.5
40°	1265.3
42.5°	1083.2
45°	973.8
47.5°	885.2
50°	807.1
52.5°	739.4
55°	687.4
57.5°	624.8
60°	557.2
62.5°	489.5
65°	427.0
67.5°	364.5
70°	312.5
72.5°	260.4
75°	213.5
77.5°	171.8
80°	130.2
82.5°	93.7
85°	62.5
87.5°	26.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)