

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: P585261

Luminaire Tested: **HC880D010-HM86080927-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585261  
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-HM86080927-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5393.9 lumens  
Efficiency: N/A  
Efficacy: 77.1 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

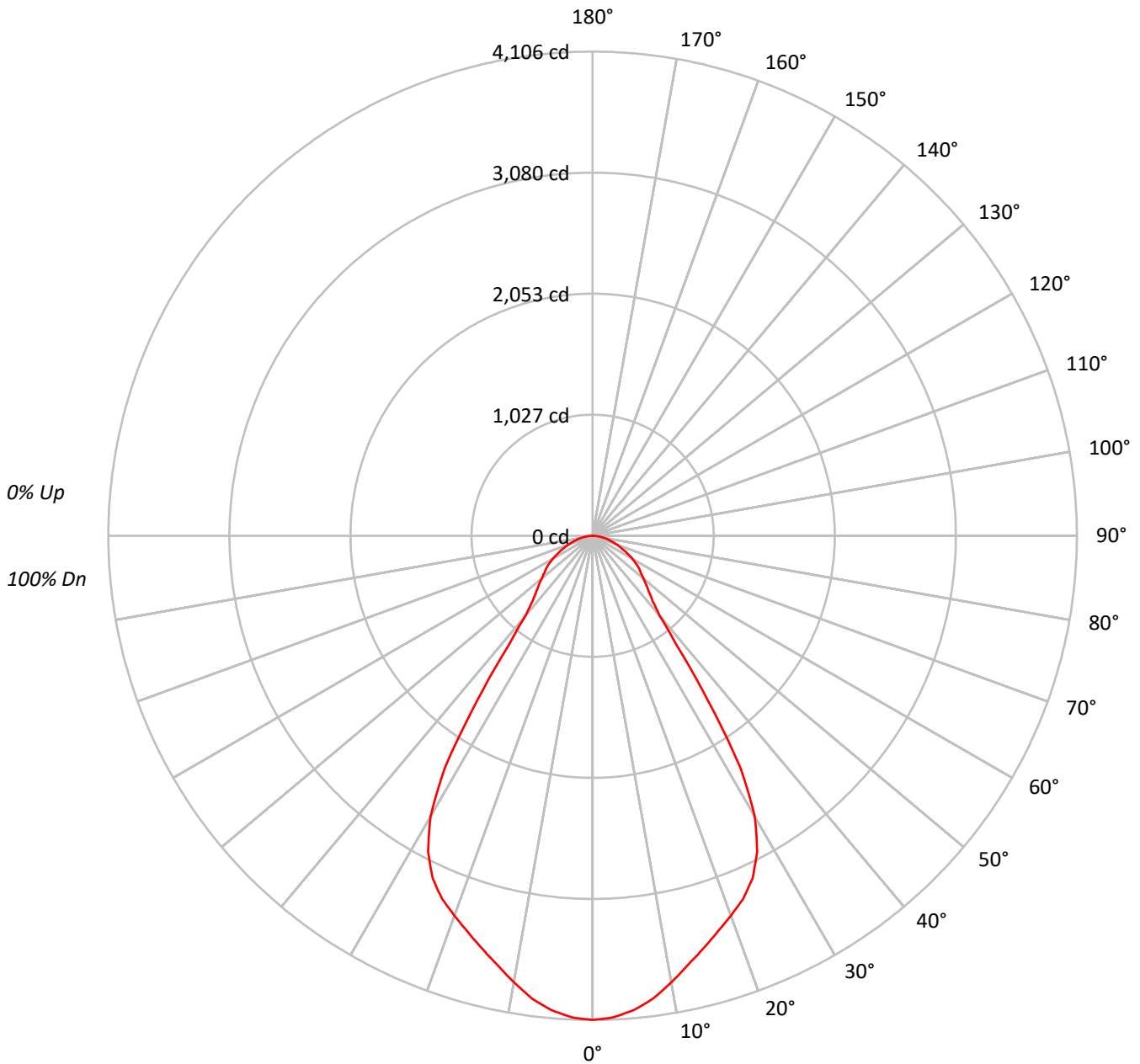
Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P585261

CATALOG NUMBER: HC880D010-HM86080927-81PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P585261

CATALOG NUMBER: HC880D010-HM86080927-81PSMDW

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

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

	0°
0°	126611
5°	124962
10°	120388
15°	115677
20°	112478
25°	109095
30°	97894
35°	64176
40°	35480
45°	29580
50°	26970
55°	25741
60°	23935
65°	21700
70°	19619
75°	17716
80°	16106
85°	15391



TEST NUMBER: P585261

CATALOG NUMBER: HC880D010-HM86080927-81PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.3	7.0
10°-20°	1022.3	19.0
20°-30°	1454.9	27.0
30°-40°	1076.8	20.0
40°-50°	533.3	9.9
50°-60°	425.7	7.9
60°-70°	295.5	5.5
70°-80°	159.2	3.0
80°-90°	46.9	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°	2856.5	53.0
0°-40°	3933.3	72.9
0°-60°	4892.3	90.7
0°-90°	5393.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5393.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4106	
5°	4037	379
15°	3624	1022
25°	3206	1455
35°	1705	1077
45°	678	533
55°	479	426
65°	297	295
75°	149	159
85°	44	47
90°	0	



TEST NUMBER: P585261

CATALOG NUMBER: HC880D010-HM86080927-81PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4105.9
2.5°	4087.8
5°	4037.0
7.5°	3957.1
10°	3844.8
12.5°	3728.7
15°	3623.5
17.5°	3521.9
20°	3427.6
22.5°	3333.4
25°	3206.4
27.5°	3021.4
30°	2749.3
32.5°	2332.2
35°	1704.8
37.5°	1164.3
40°	881.4
42.5°	754.4
45°	678.3
47.5°	616.6
50°	562.2
52.5°	515.1
55°	478.8
57.5°	435.3
60°	388.1
62.5°	341.0
65°	297.4
67.5°	253.9
70°	217.6
72.5°	181.3
75°	148.7
77.5°	119.7
80°	90.7
82.5°	65.3
85°	43.5
87.5°	18.2
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)