

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: P585294

Luminaire Tested: **HC880D010-HM86080935-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585294  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC880D010-HM86080935-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5908.0 lumens  
Efficiency: N/A  
Efficacy: 84.4 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

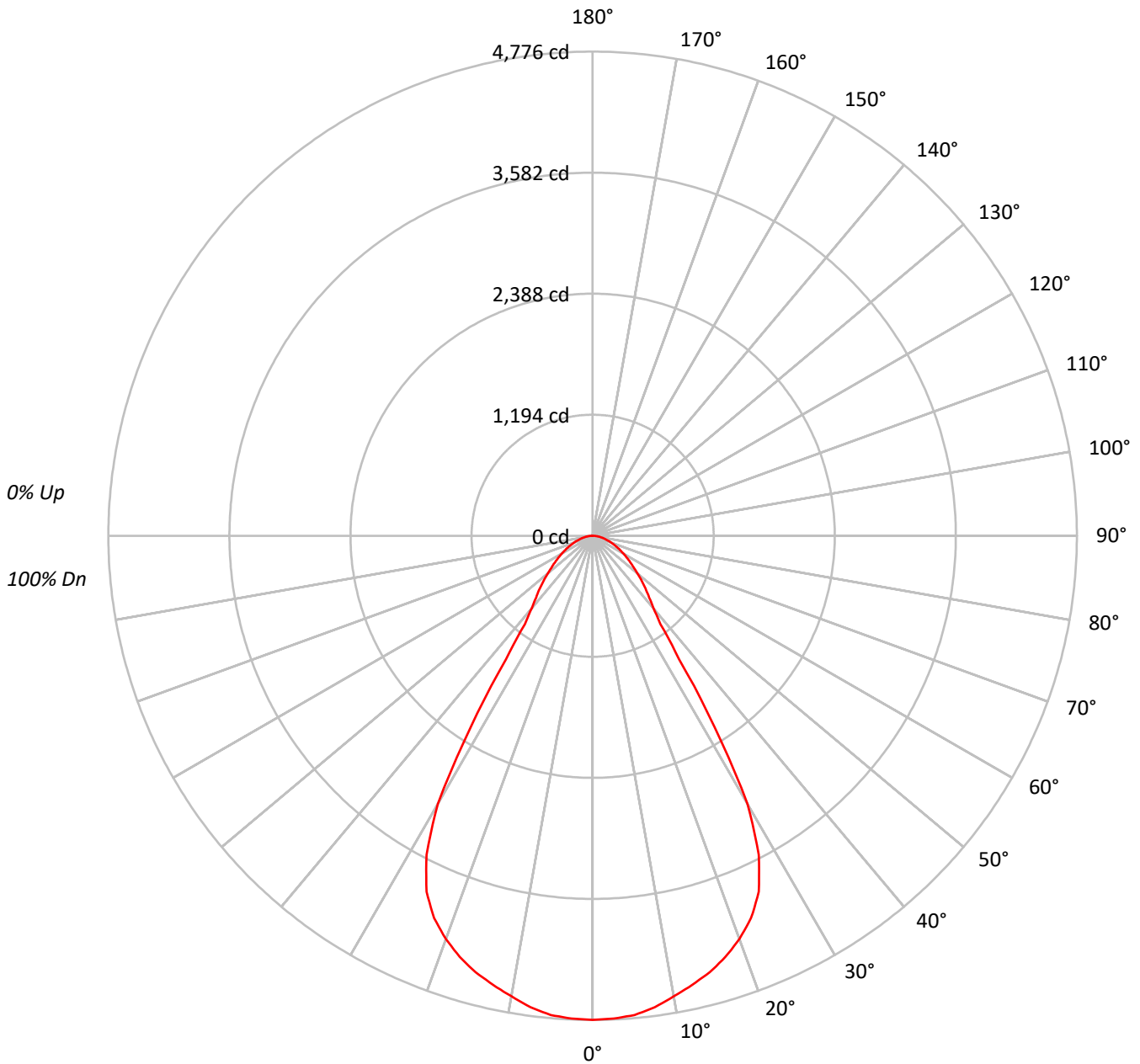
Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P585294

CATALOG NUMBER: HC880D010-HM86080935-81NDW

### Luminous Intensity Polar Plot





TEST NUMBER: P585294

CATALOG NUMBER: HC880D010-HM86080935-81NDW

**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	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			

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

	0°
0°	147262
5°	146868
10°	144424
15°	142311
20°	138897
25°	131850
30°	108754
35°	55992
40°	37489
45°	32144
50°	27738
55°	24203
60°	21505
65°	19321
70°	17509
75°	15786
80°	14100
85°	14046



TEST NUMBER: P585294

CATALOG NUMBER: HC880D010-HM86080935-81NDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	448.6	7.6
10°-20°	1254.2	21.2
20°-30°	1737.8	29.4
30°-40°	1043.8	17.7
40°-50°	571.4	9.7
50°-60°	405.9	6.9
60°-70°	263.5	4.5
70°-80°	140.8	2.4
80°-90°	42.0	0.7
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°	3440.6	58.2
0°-40°	4484.4	75.9
0°-60°	5461.7	92.4
0°-90°	5908.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5908.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4776	
5°	4745	449
15°	4458	1254
25°	3875	1738
35°	1487	1044
45°	737	571
55°	450	406
65°	265	264
75°	132	141
85°	40	42
90°	0	



TEST NUMBER: P585294

CATALOG NUMBER: HC880D010-HM86080935-81NDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4775.6
2.5°	4766.8
5°	4744.7
7.5°	4691.8
10°	4612.4
12.5°	4537.3
15°	4457.8
17.5°	4356.4
20°	4232.7
22.5°	4082.7
25°	3875.2
27.5°	3548.6
30°	3054.3
32.5°	2237.7
35°	1487.4
37.5°	1099.0
40°	931.3
42.5°	825.4
45°	737.1
47.5°	653.2
50°	578.2
52.5°	507.6
55°	450.2
57.5°	397.2
60°	348.7
62.5°	304.5
65°	264.8
67.5°	225.1
70°	194.2
72.5°	158.9
75°	132.5
77.5°	105.9
80°	79.4
82.5°	57.4
85°	39.7
87.5°	17.6
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)