

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: P585227

Luminaire Tested: **HC880D010-HM86080835-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585227  
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-HM86080835-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7394.3 lumens  
Efficiency: N/A  
Efficacy: 105.6 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

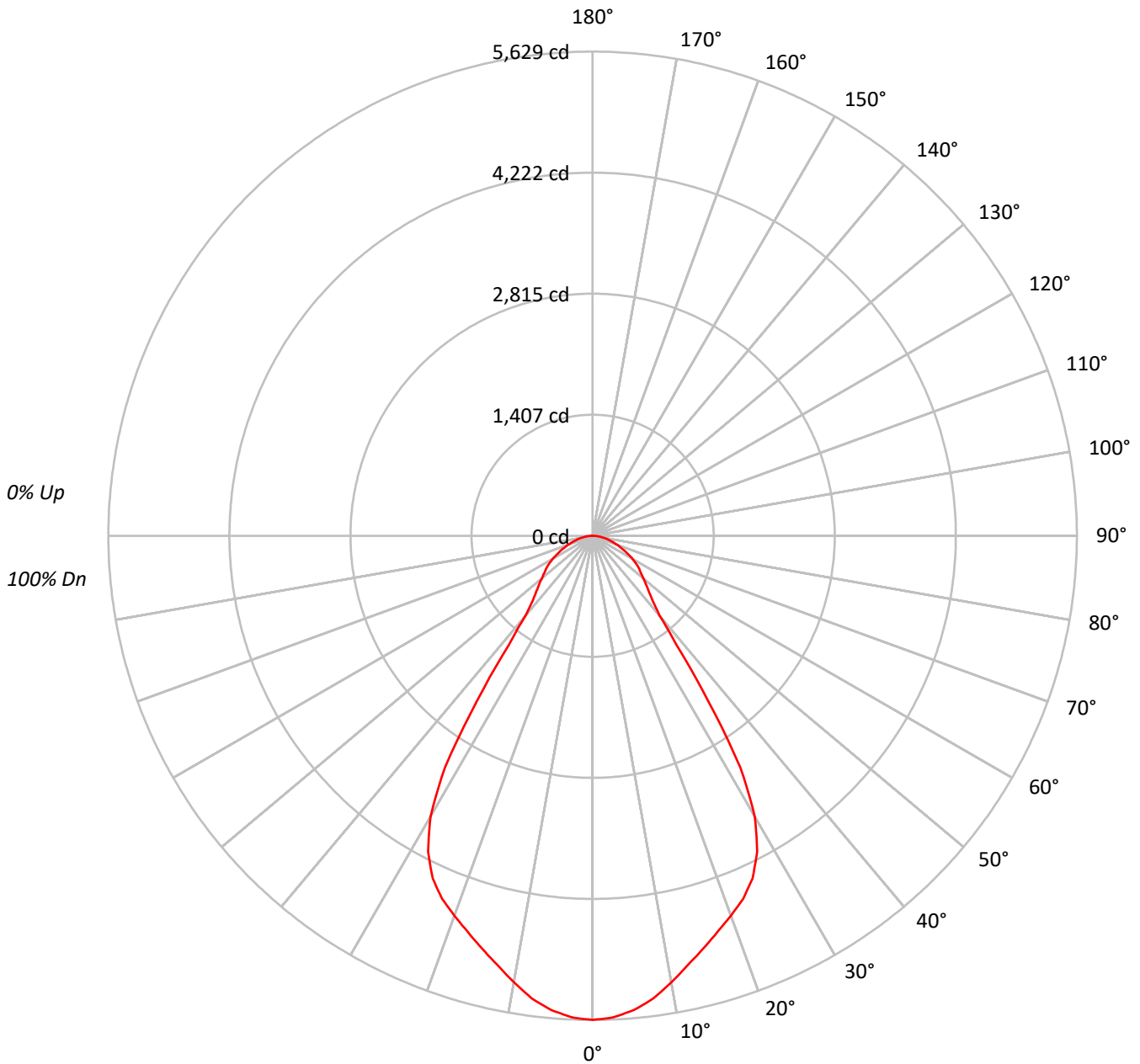
Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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°	173568
5°	171306
10°	165036
15°	158580
20°	154196
25°	149556
30°	134202
35°	87974
40°	48639
45°	40548
50°	36973
55°	35284
60°	32816
65°	29748
70°	26895
75°	24293
80°	22073
85°	21122



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	520.0	7.0
10°-20°	1401.5	19.0
20°-30°	1994.5	27.0
30°-40°	1476.1	20.0
40°-50°	731.1	9.9
50°-60°	583.5	7.9
60°-70°	405.1	5.5
70°-80°	218.3	3.0
80°-90°	64.3	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°	3915.9	53.0
0°-40°	5392.1	72.9
0°-60°	6706.7	90.7
0°-90°	7394.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7394.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5629	
5°	5534	520
15°	4967	1401
25°	4396	1994
35°	2337	1476
45°	930	731
55°	656	583
65°	408	405
75°	204	218
85°	60	64
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5628.7
2.5°	5603.9
5°	5534.2
7.5°	5424.8
10°	5270.7
12.5°	5111.6
15°	4967.4
17.5°	4828.2
20°	4698.9
22.5°	4569.6
25°	4395.6
27.5°	4142.0
30°	3769.0
32.5°	3197.2
35°	2337.0
37.5°	1596.1
40°	1208.3
42.5°	1034.3
45°	929.8
47.5°	845.3
50°	770.7
52.5°	706.0
55°	656.3
57.5°	596.6
60°	532.1
62.5°	467.4
65°	407.7
67.5°	348.0
70°	298.3
72.5°	248.6
75°	203.9
77.5°	164.1
80°	124.3
82.5°	89.5
85°	59.7
87.5°	24.9
90°	0.0



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— 0°-180°







(END OF REPORT)