

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: P585258

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585258  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC880D010-HM86080927-81NDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5386.8 lumens  
Efficiency: N/A  
Efficacy: 77.0 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

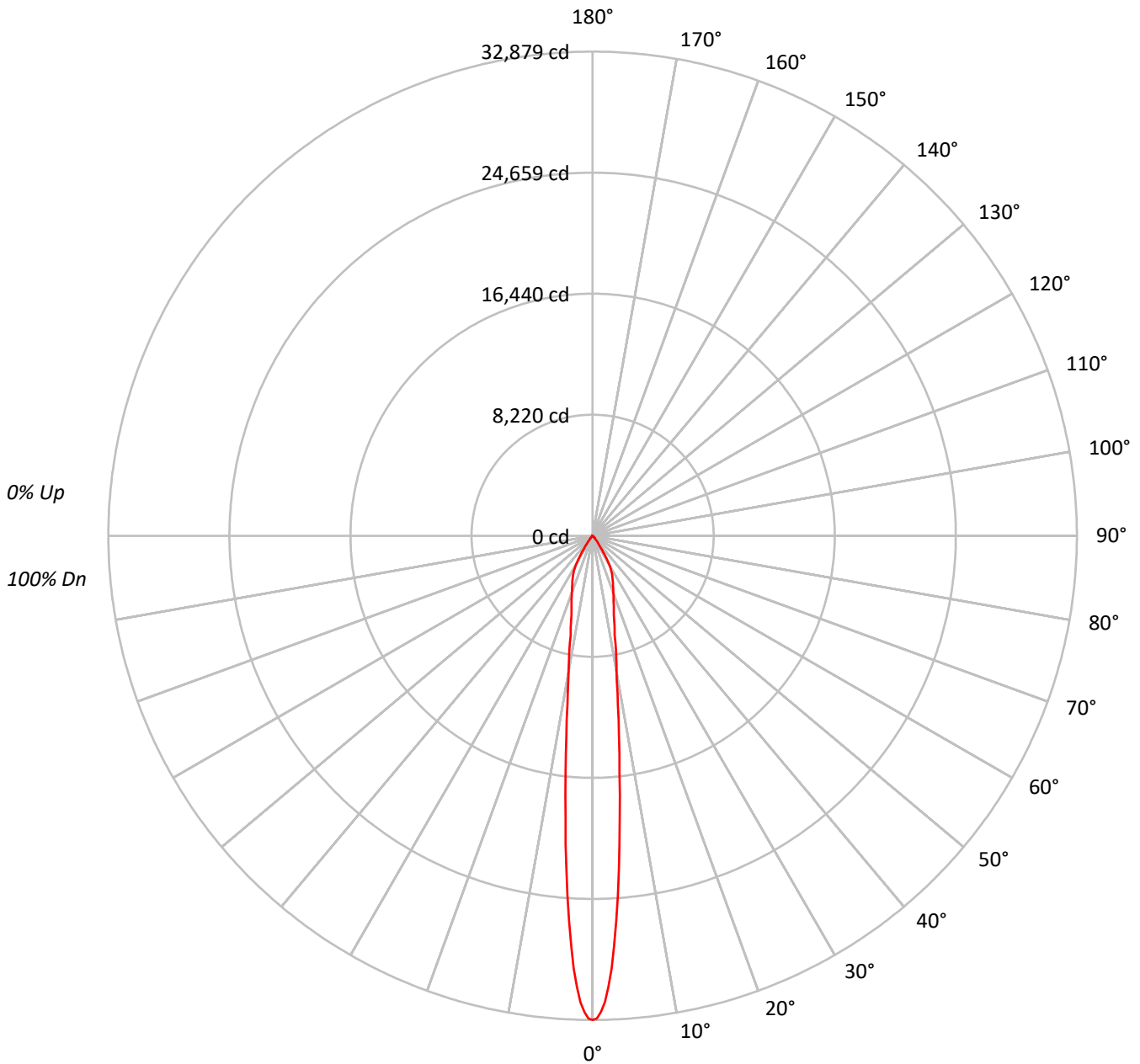
Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	115	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96			
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91			
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87			
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83			
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71			
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68			
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66			

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

	0°
0°	1013861
5°	650312
10°	293769
15°	177252
20°	135074
25°	109078
30°	79930
35°	28941
40°	10804
45°	4906
50°	1569
55°	392
60°	228
65°	270
70°	0
75°	0
80°	657
85°	1309



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1602.3	29.7
10°-20°	1627.5	30.2
20°-30°	1456.9	27.0
30°-40°	586.9	10.9
40°-50°	96.3	1.8
50°-60°	8.8	0.2
60°-70°	3.2	0.1
70°-80°	2.5	0.0
80°-90°	3.5	0.1
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°	4686.7	87.0
0°-40°	5273.5	97.9
0°-60°	5378.6	99.8
0°-90°	5387.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5386.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	32879	
5°	21009	###
15°	5552	1627
25°	3206	1457
35°	769	587
45°	112	96
55°	7	9
65°	4	3
75°	0	2
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	32878.8
0.5°	32777.3
1°	32352.9
1.5°	31671.2
2°	30637.6
2.5°	29415.4
3°	27884.9
3.5°	26205.8
4°	24544.9
4.5°	22684.5
5°	21008.9
5.5°	19184.8
6°	17705.0
6.5°	16163.7
7°	14952.5
7.5°	13672.3
8°	12642.4
8.5°	11608.8
9°	10832.6
9.5°	9976.8
10°	9382.0
12.5°	6919.5
15°	5552.3
17.5°	4743.6
20°	4116.2
22.5°	3615.7
25°	3205.9
27.5°	2796.1
30°	2244.8
32.5°	1443.4
35°	768.8
37.5°	424.4
40°	268.4
42.5°	177.8
45°	112.5
47.5°	69.0
50°	32.7
52.5°	10.9
55°	7.3
57.5°	3.7
60°	3.7
62.5°	3.7
65°	3.7



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**CANDELA DISTRIBUTION (continued):**

	0°
72.5°	0.0
75°	0.0
77.5°	3.7
80°	3.7
82.5°	3.7
85°	3.7
87.5°	3.7
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







67.5°		3.7
70°		0.0



(END OF REPORT)