

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: P585191

Luminaire Tested: **HC880D010-HM86080827-81NDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585191  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC880D010-HM86080827-81NDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5639.0 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

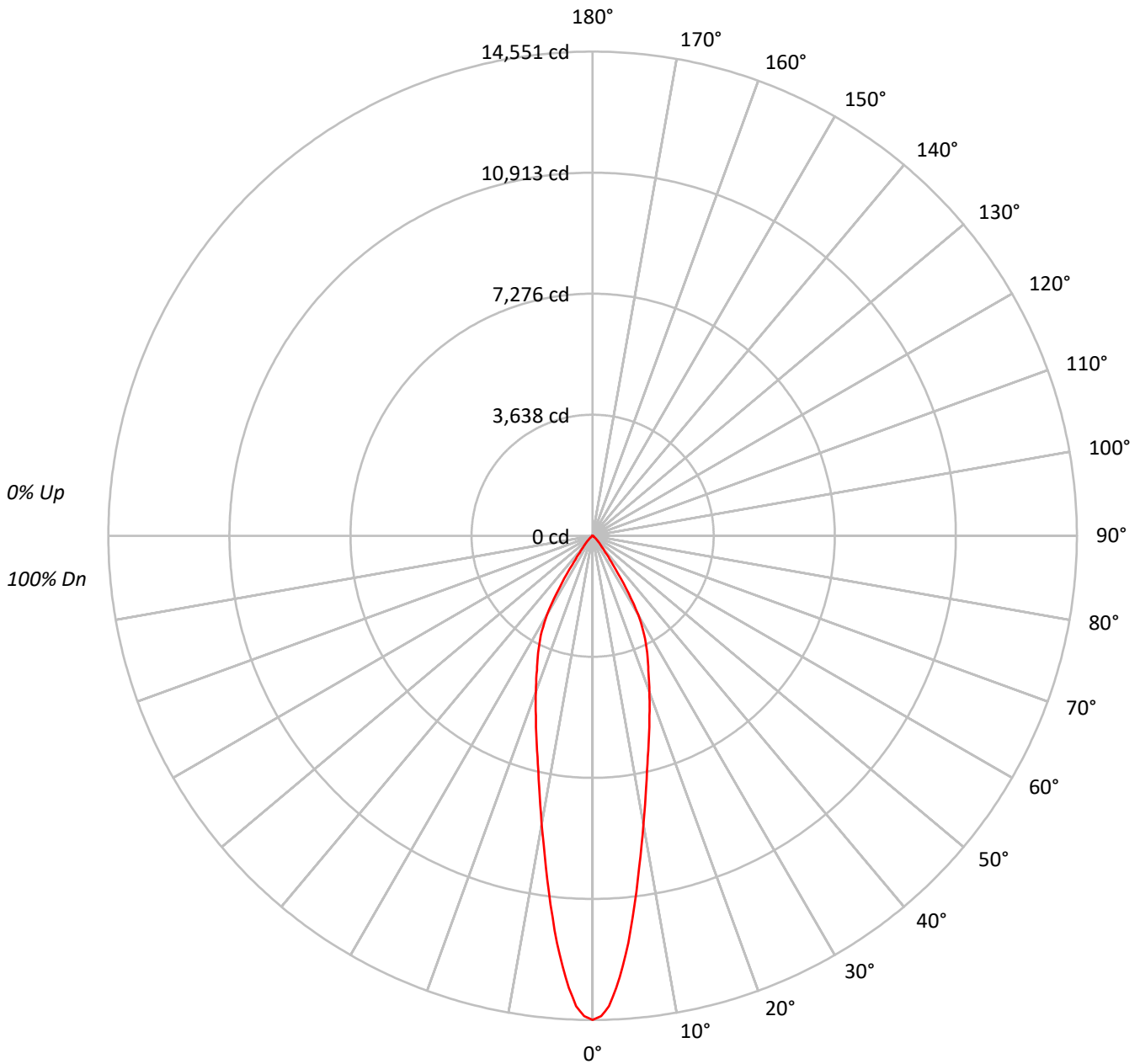
Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P585191

CATALOG NUMBER: HC880D010-HM86080827-81NDH

### 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	100	100
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95	95	95	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89	89	89	89
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84	84	84	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80	80	80	80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75	75	75	75
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72	72	72	72
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68	68	68	68
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65	65	65	65
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62	62	62	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59	59	59	59

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

	0°
0°	448690
5°	380135
10°	275806
15°	207120
20°	163424
25°	131823
30°	97687
35°	39575
40°	16689
45°	8949
50°	4020
55°	2027
60°	1289
65°	919
70°	748
75°	500
80°	746
85°	1486



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1054.4	18.7
10°-20°	1822.2	32.3
20°-30°	1761.8	31.2
30°-40°	773.8	13.7
40°-50°	167.2	3.0
50°-60°	37.6	0.7
60°-70°	12.9	0.2
70°-80°	5.0	0.1
80°-90°	4.0	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°	4638.5	82.3
0°-40°	5412.3	96.0
0°-60°	5617.1	99.6
0°-90°	5639.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5639.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	14551	
5°	12281	###
15°	6488	1822
25°	3874	1762
35°	1051	774
45°	205	167
55°	38	38
65°	13	13
75°	4	5
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	14550.7
1°	14441.8
2°	14144.5
3°	13608.3
4°	12967.6
5°	12280.6
6°	11530.9
7°	10777.0
8°	10069.2
9°	9411.5
10°	8808.3
11°	8238.7
12°	7727.8
13°	7262.8
14°	6852.3
15°	6487.9
17.5°	5671.2
20°	4980.1
22.5°	4372.8
25°	3874.4
27.5°	3367.5
30°	2743.5
32.5°	1863.9
35°	1051.3
37.5°	619.9
40°	414.6
42.5°	293.2
45°	205.2
47.5°	134.0
50°	83.8
52.5°	50.3
55°	37.7
57.5°	29.4
60°	20.9
62.5°	16.8
65°	12.6
67.5°	8.3
70°	8.3
72.5°	4.2
75°	4.2
77.5°	4.2
80°	4.2
82.5°	4.2



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**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



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— 0°-180°







85°	4.2
87.5°	4.2



(END OF REPORT)