

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: P585225

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585225  
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-HM86080835-81NDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6733.0 lumens  
Efficiency: N/A  
Efficacy: 96.2 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

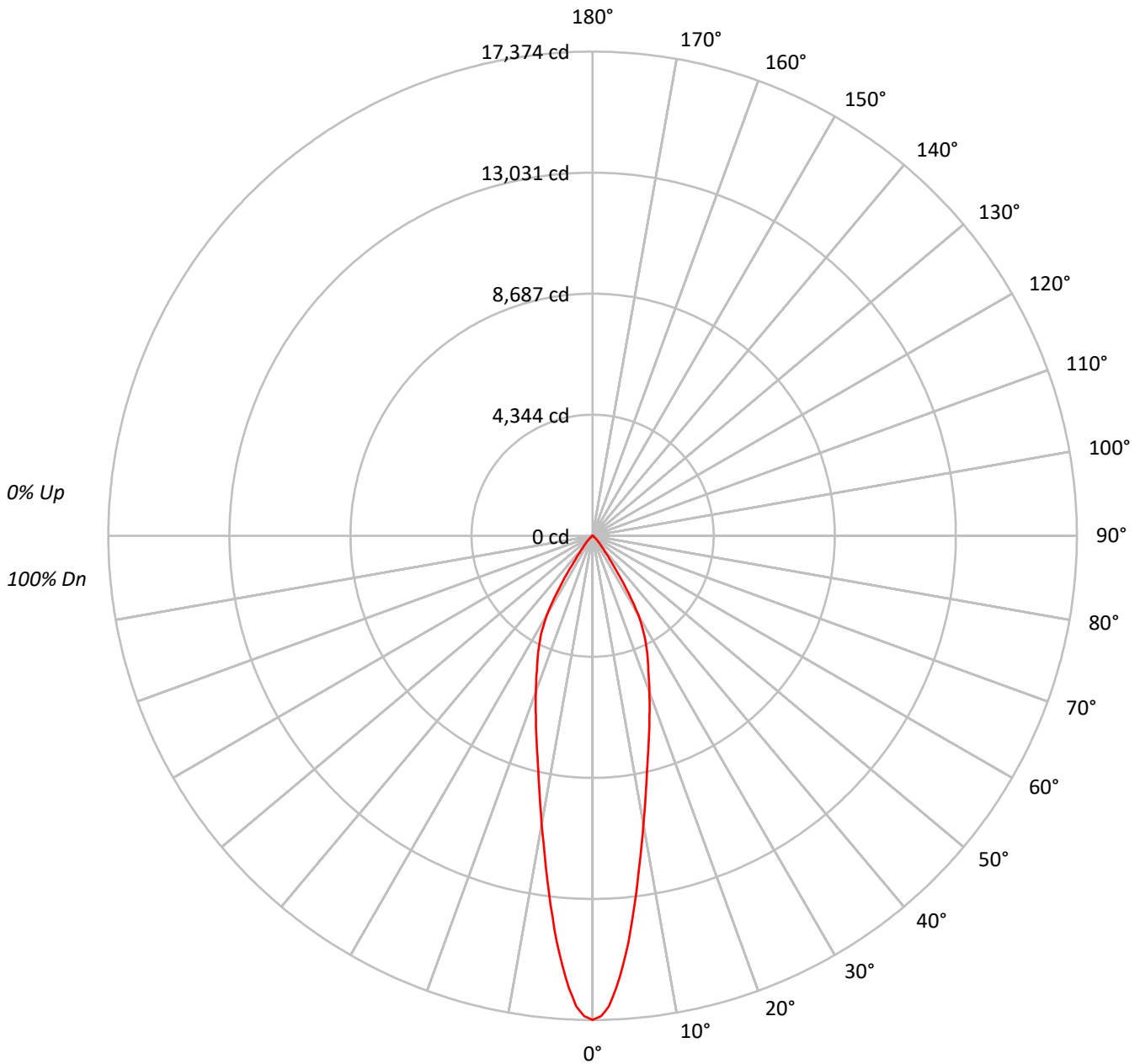
Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	535747
5°	453886
10°	329318
15°	247306
20°	195130
25°	157396
30°	116637
35°	47251
40°	19930
45°	10689
50°	4797
55°	2425
60°	1542
65°	1094
70°	902
75°	596
80°	888
85°	1769



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1259.0	18.7
10°-20°	2175.8	32.3
20°-30°	2103.6	31.2
30°-40°	923.9	13.7
40°-50°	199.7	3.0
50°-60°	44.9	0.7
60°-70°	15.4	0.2
70°-80°	5.9	0.1
80°-90°	4.8	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°	5538.4	82.3
0°-40°	6462.3	96.0
0°-60°	6706.9	99.6
0°-90°	6733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6733.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	17374	
5°	14663	###
15°	7747	2176
25°	4626	2104
35°	1255	924
45°	245	200
55°	45	45
65°	15	15
75°	5	6
85°	5	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	17373.9
1°	17243.8
2°	16888.8
3°	16248.6
4°	15483.4
5°	14663.2
6°	13768.0
7°	12867.8
8°	12022.7
9°	11237.5
10°	10517.3
11°	9837.2
12°	9227.0
13°	8672.0
14°	8181.9
15°	7746.7
17.5°	6771.5
20°	5946.3
22.5°	5221.1
25°	4626.0
27.5°	4020.8
30°	3275.7
32.5°	2225.5
35°	1255.2
37.5°	740.2
40°	495.1
42.5°	350.0
45°	245.1
47.5°	160.0
50°	100.0
52.5°	60.0
55°	45.1
57.5°	35.0
60°	25.0
62.5°	20.0
65°	15.0
67.5°	10.0
70°	10.0
72.5°	5.0
75°	5.0
77.5°	5.0
80°	5.0
82.5°	5.0



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CANDELA DISTRIBUTION (continued):

0°  
90° | 0.0



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— 0°-180°







85°		5.0
87.5°		5.0



(END OF REPORT)