

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: P583451

Luminaire Tested: **HC805D010-HM80520830-81WDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583451  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC805D010-HM80520830-81WDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 750.7 lumens  
Efficiency: N/A  
Efficacy: 125.1 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

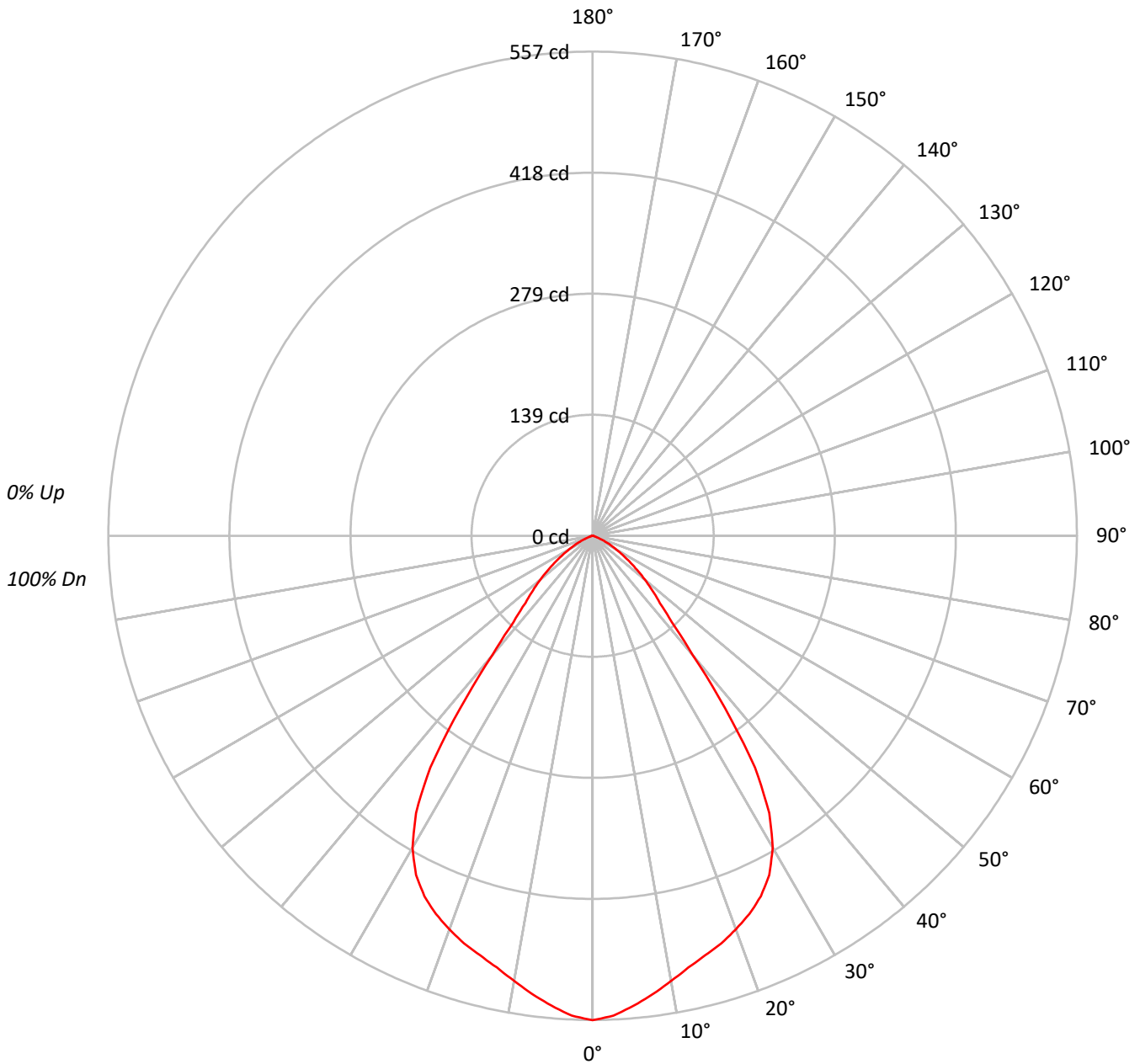
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92				
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83				
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75				
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68				
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62				
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57				
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52				
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48				
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44				
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41				

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

	0°
0°	17185
5°	16799
10°	16282
15°	15952
20°	15810
25°	15573
30°	14752
35°	12257
40°	7218
45°	4775
50°	3756
55°	2769
60°	1918
65°	1167
70°	505
75°	226
80°	178
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.1	6.8
10°-20°	141.3	18.8
20°-30°	209.3	27.9
30°-40°	193.4	25.8
40°-50°	89.2	11.9
50°-60°	46.9	6.3
60°-70°	16.6	2.2
70°-80°	2.6	0.4
80°-90°	0.3	0.0
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°	401.7	53.5
0°-40°	595.1	79.3
0°-60°	731.2	97.4
0°-90°	750.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	750.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	557	
5°	543	51
15°	500	141
25°	458	209
35°	326	193
45°	110	89
55°	52	47
65°	16	17
75°	2	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	557.3
2.5°	552.5
5°	542.7
7.5°	531.8
10°	520.0
12.5°	508.7
15°	499.7
17.5°	491.7
20°	481.8
22.5°	470.9
25°	457.7
27.5°	439.8
30°	414.3
32.5°	378.0
35°	325.6
37.5°	250.1
40°	179.3
42.5°	134.5
45°	109.5
47.5°	93.0
50°	78.3
52.5°	64.2
55°	51.5
57.5°	40.6
60°	31.1
62.5°	23.6
65°	16.0
67.5°	9.5
70°	5.6
72.5°	3.4
75°	1.9
77.5°	1.4
80°	1.0
82.5°	0.5
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)