

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: P593488

Luminaire Tested: **HC807D010-HM80520850-81NDC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593488  
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: HC807D010-HM80520850-81NDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1033.2 lumens  
Efficiency: N/A  
Efficacy: 129.2 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

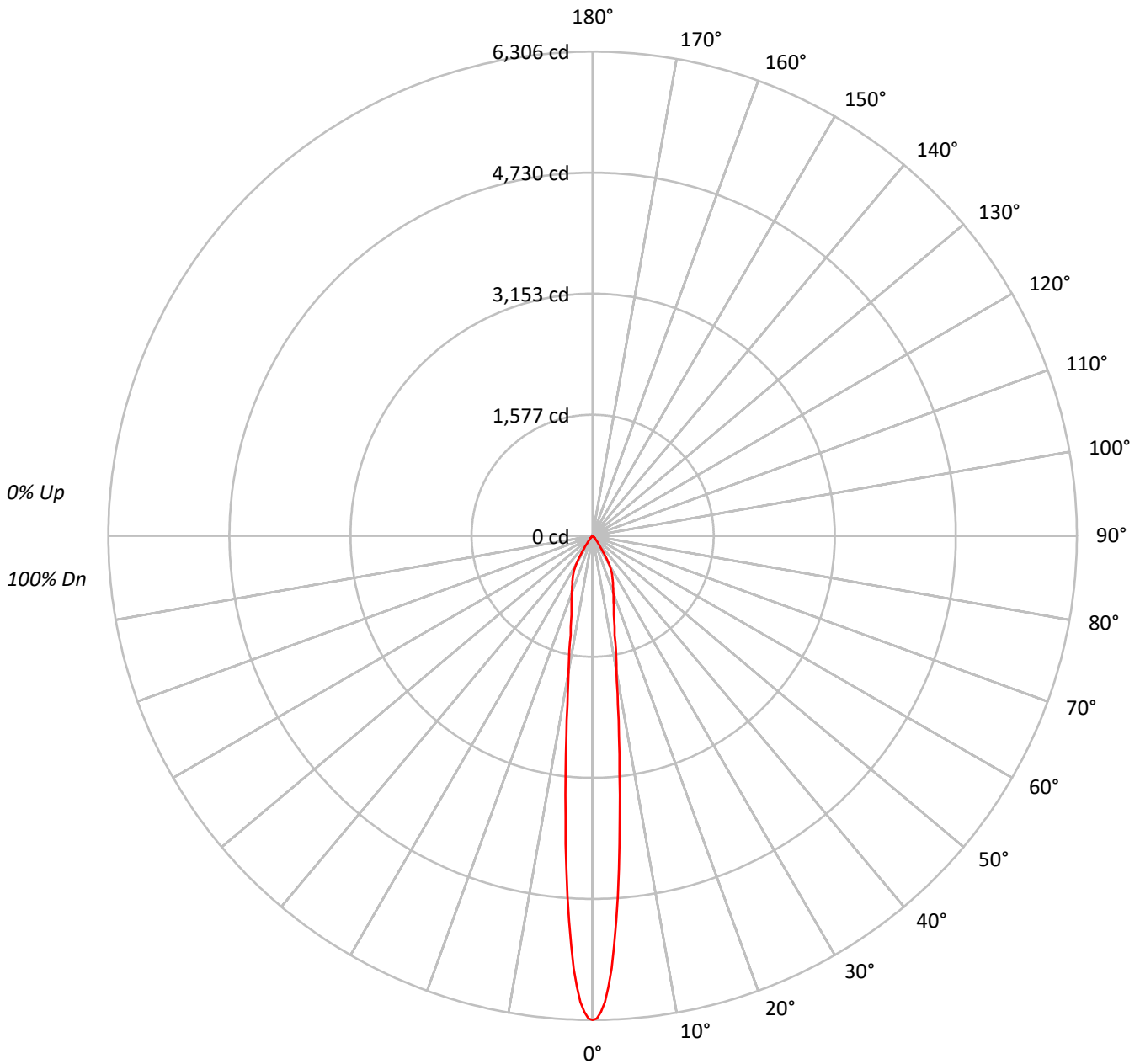
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96			96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91			91
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87			87
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83			83
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80			80
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76			76
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73			73
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71			71
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68			68
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66			66

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

	0°
0°	194466
5°	124736
10°	56349
15°	33999
20°	25908
25°	20921
30°	15332
35°	5553
40°	2073
45°	938
50°	297
55°	75
60°	43
65°	51
70°	0
75°	0
80°	124
85°	248



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	307.3	29.7
10°-20°	312.2	30.2
20°-30°	279.4	27.0
30°-40°	112.6	10.9
40°-50°	18.5	1.8
50°-60°	1.7	0.2
60°-70°	0.6	0.1
70°-80°	0.5	0.0
80°-90°	0.7	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°	898.9	87.0
0°-40°	1011.5	97.9
0°-60°	1031.6	99.8
0°-90°	1033.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1033.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6306	
5°	4030	307
15°	1065	312
25°	615	279
35°	148	113
45°	22	18
55°	1	2
65°	1	1
75°	0	0
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	6306.4
0.5°	6286.9
1°	6205.5
1.5°	6074.8
2°	5876.5
2.5°	5642.1
3°	5348.5
3.5°	5026.4
4°	4707.8
4.5°	4351.0
5°	4029.7
5.5°	3679.8
6°	3396.0
6.5°	3100.3
7°	2868.0
7.5°	2622.4
8°	2424.9
8.5°	2226.6
9°	2077.7
9.5°	1913.6
10°	1799.6
12.5°	1327.2
15°	1065.0
17.5°	909.9
20°	789.5
22.5°	693.6
25°	614.9
27.5°	536.3
30°	430.6
32.5°	276.9
35°	147.5
37.5°	81.4
40°	51.5
42.5°	34.1
45°	21.5
47.5°	13.3
50°	6.2
52.5°	2.0
55°	1.4
57.5°	0.7
60°	0.7
62.5°	0.7
65°	0.7



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**CANDELA DISTRIBUTION (continued):**

	0°
72.5°	0.0
75°	0.0
77.5°	0.7
80°	0.7
82.5°	0.7
85°	0.7
87.5°	0.7
90°	0.0



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— 0°-180°







67.5°		0.7
70°		0.0



(END OF REPORT)