

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: P593502

Luminaire Tested: **HC807D010-HM80520950-81NDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593502  
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: HC807D010-HM80520950-81NDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 828.5 lumens  
Efficiency: N/A  
Efficacy: 103.6 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

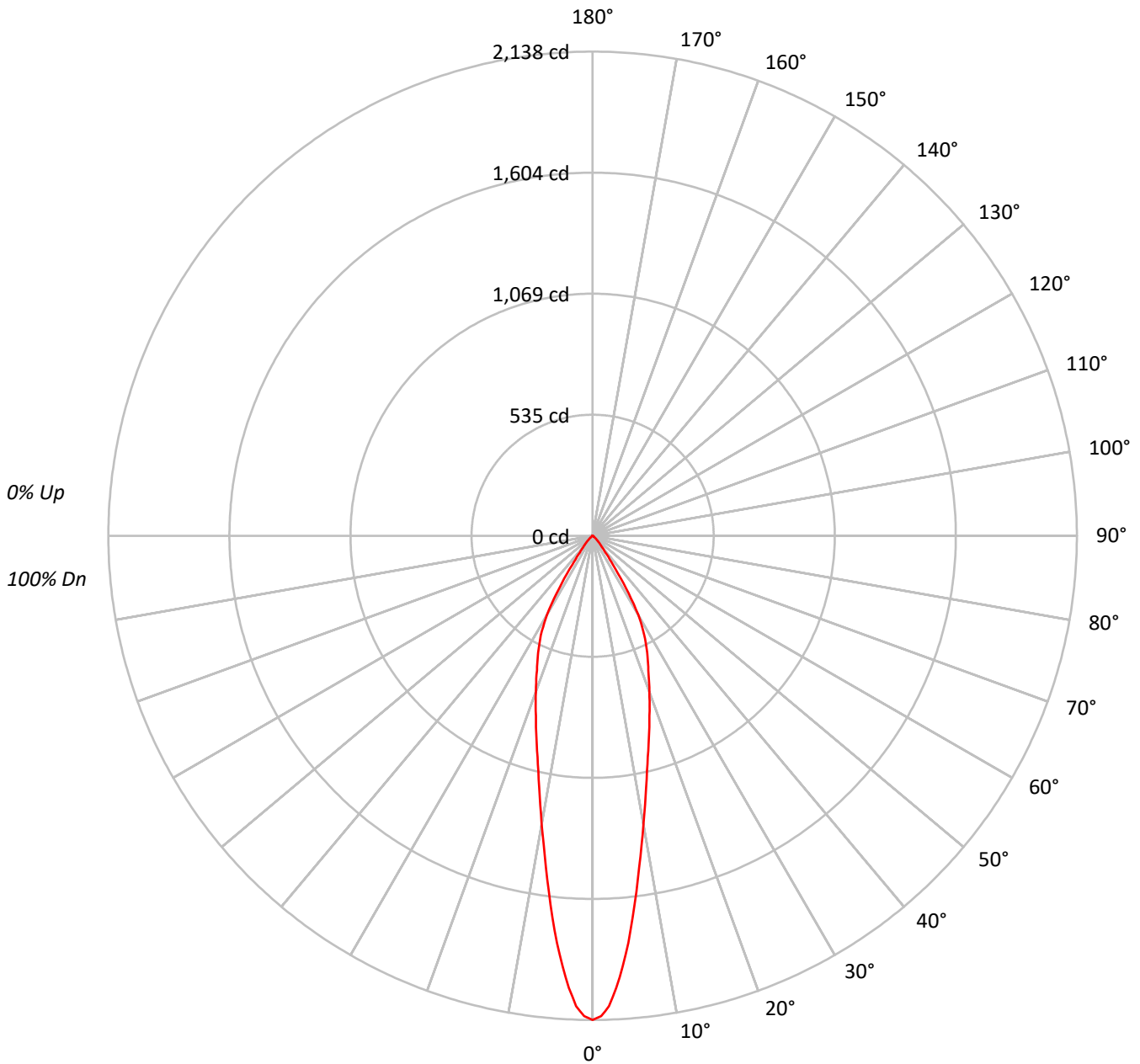
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	82	77	74	80	76	73	79	76	73	72	72	72	72
7	88	80	74	71	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°	65931
5°	55860
10°	40527
15°	30436
20°	24014
25°	19370
30°	14353
35°	5816
40°	2451
45°	1313
50°	590
55°	296
60°	191
65°	131
70°	108
75°	71
80°	107
85°	212



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.9	18.7
10°-20°	267.8	32.3
20°-30°	258.9	31.2
30°-40°	113.7	13.7
40°-50°	24.6	3.0
50°-60°	5.5	0.7
60°-70°	1.9	0.2
70°-80°	0.7	0.1
80°-90°	0.6	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°	681.6	82.3
0°-40°	795.3	96.0
0°-60°	825.4	99.6
0°-90°	828.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	828.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2138	
5°	1805	155
15°	953	268
25°	569	259
35°	154	114
45°	30	25
55°	6	6
65°	2	2
75°	1	1
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2138.1
1°	2122.1
2°	2078.3
3°	1999.6
4°	1905.4
5°	1804.6
6°	1694.4
7°	1583.6
8°	1479.5
9°	1383.0
10°	1294.3
11°	1210.7
12°	1135.5
13°	1067.3
14°	1006.9
15°	953.4
17.5°	833.3
20°	731.8
22.5°	642.6
25°	569.3
27.5°	494.8
30°	403.1
32.5°	273.9
35°	154.5
37.5°	91.1
40°	60.9
42.5°	43.1
45°	30.1
47.5°	19.7
50°	12.3
52.5°	7.4
55°	5.5
57.5°	4.3
60°	3.1
62.5°	2.5
65°	1.8
67.5°	1.2
70°	1.2
72.5°	0.6
75°	0.6
77.5°	0.6
80°	0.6
82.5°	0.6



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**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



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— 0°-180°







85°		0.6
87.5°		0.6



(END OF REPORT)