

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: P593560

Luminaire Tested: **HC815D010-HM80520850-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593560  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC815D010-HM80520850-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1767.0 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

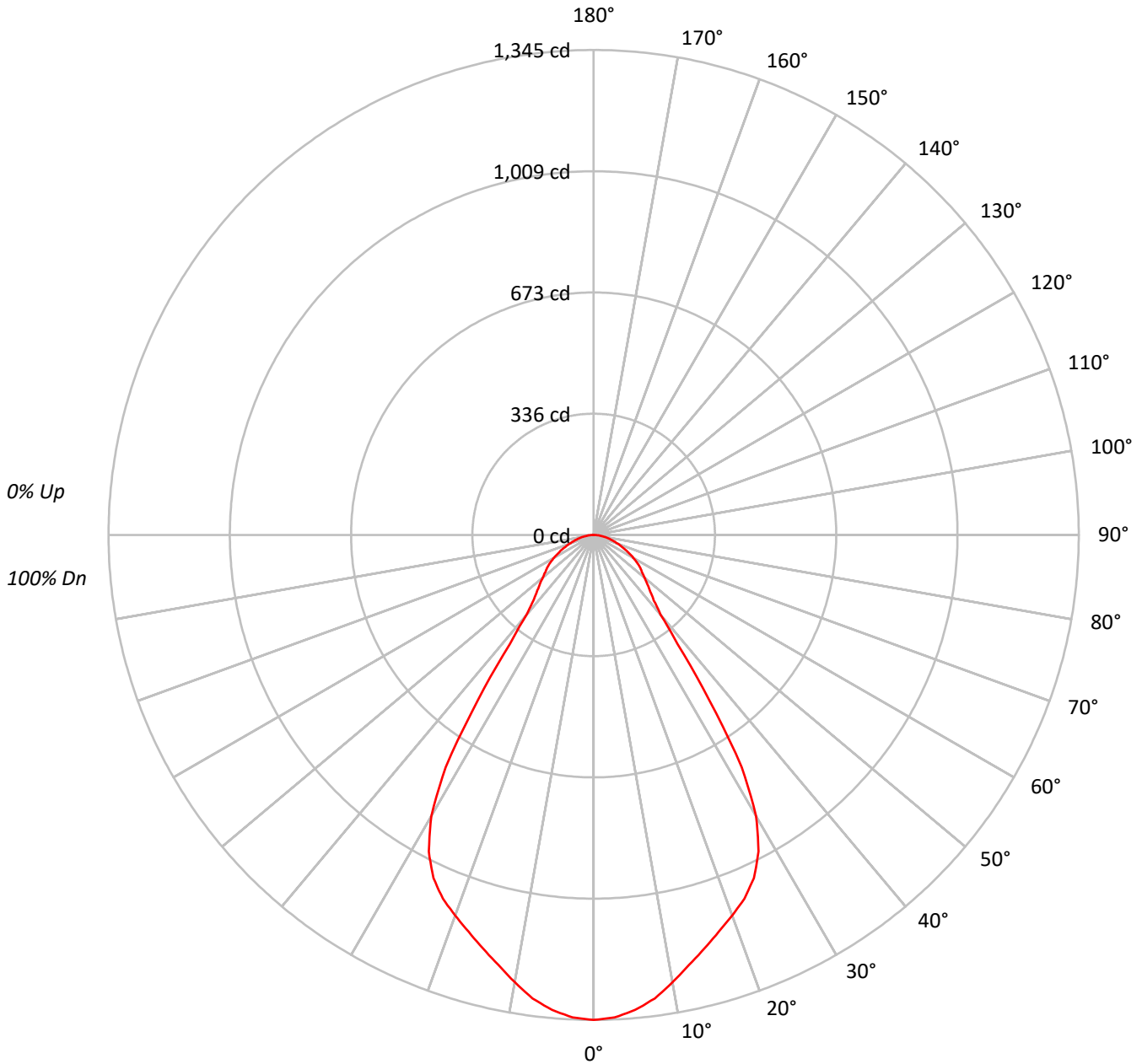
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49			49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

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

	0°
0°	41478
5°	40940
10°	39441
15°	37894
20°	36848
25°	35739
30°	32071
35°	21024
40°	11621
45°	9690
50°	8837
55°	8435
60°	7839
65°	7114
70°	6428
75°	5802
80°	5292
85°	5024



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.3	7.0
10°-20°	334.9	19.0
20°-30°	476.6	27.0
30°-40°	352.8	20.0
40°-50°	174.7	9.9
50°-60°	139.5	7.9
60°-70°	96.8	5.5
70°-80°	52.2	3.0
80°-90°	15.3	0.9
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°	935.8	53.0
0°-40°	1288.6	72.9
0°-60°	1602.7	90.7
0°-90°	1767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1767.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1345	
5°	1323	124
15°	1187	335
25°	1050	477
35°	558	353
45°	222	175
55°	157	139
65°	98	97
75°	49	52
85°	14	15
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1345.1
2.5°	1339.2
5°	1322.6
7.5°	1296.5
10°	1259.6
12.5°	1221.5
15°	1187.0
17.5°	1153.8
20°	1122.9
22.5°	1092.1
25°	1050.4
27.5°	989.9
30°	900.7
32.5°	764.1
35°	558.5
37.5°	381.4
40°	288.7
42.5°	247.1
45°	222.2
47.5°	202.0
50°	184.2
52.5°	168.7
55°	156.9
57.5°	142.6
60°	127.1
62.5°	111.7
65°	97.5
67.5°	83.1
70°	71.3
72.5°	59.4
75°	48.7
77.5°	39.2
80°	29.8
82.5°	21.4
85°	14.2
87.5°	5.9
90°	0.0



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— 0°-180°







(END OF REPORT)