

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: P593557

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593557  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC815D010-HM80520850-81WDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

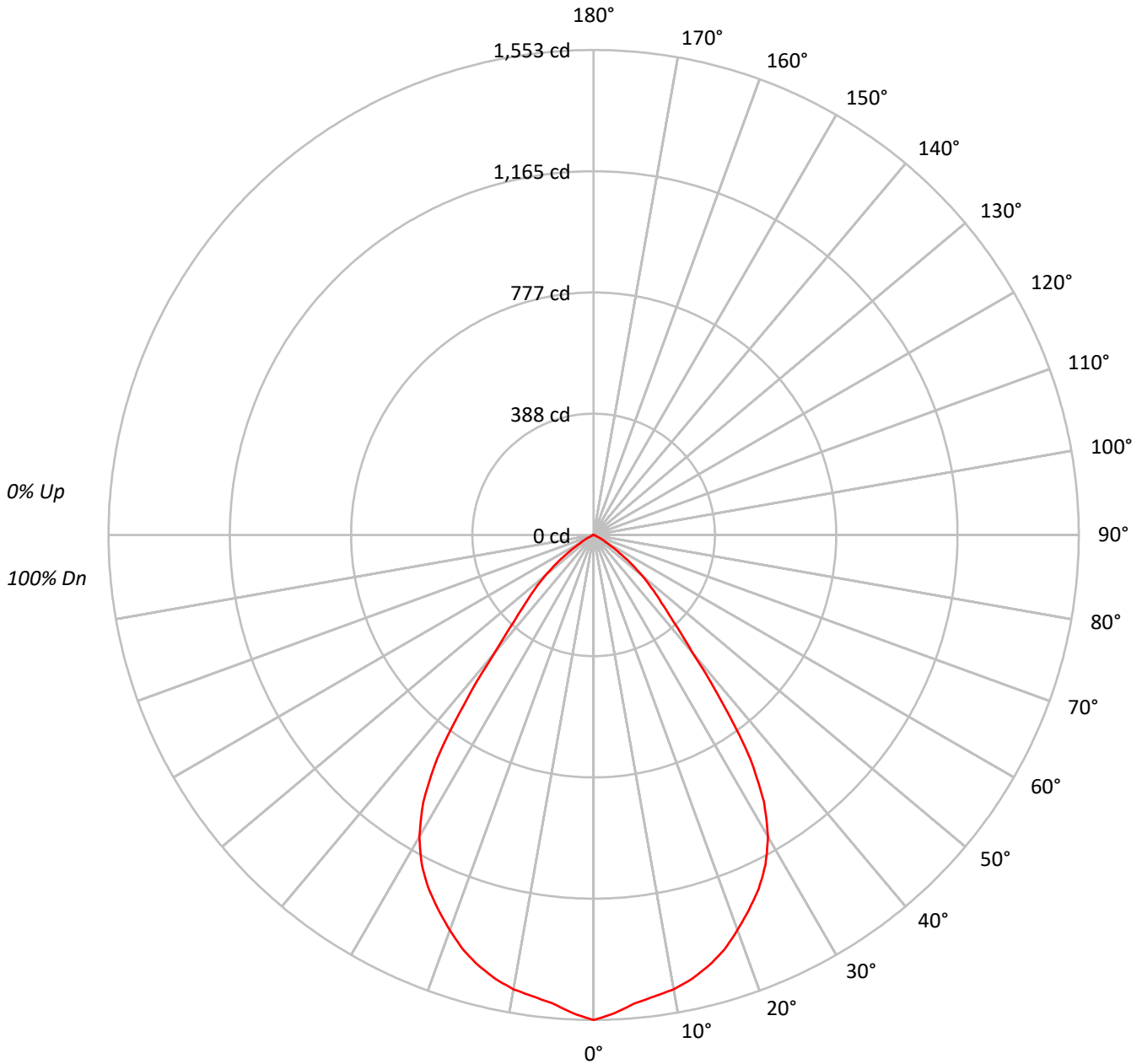
Lumens per Lamp: N/A  
Luminaire Lumens: 1996.5 lumens  
Efficiency: N/A  
Efficacy: 142.6 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92			
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84			
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	77			
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	71	70			
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64			
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59			
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	63	59	55	54			
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46			
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43			

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

	0°
0°	47901
5°	46611
10°	46257
15°	45565
20°	44189
25°	42540
30°	39737
35°	32882
40°	19853
45°	13375
50°	9638
55°	5494
60°	2418
65°	868
70°	325
75°	143
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.1	7.2
10°-20°	401.1	20.1
20°-30°	572.2	28.7
30°-40°	521.1	26.1
40°-50°	245.8	12.3
50°-60°	96.7	4.8
60°-70°	15.4	0.8
70°-80°	1.1	0.1
80°-90°	0.0	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°	1116.4	55.9
0°-40°	1637.5	82.0
0°-60°	1980.0	99.2
0°-90°	1996.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1996.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1553	
5°	1506	143
15°	1427	401
25°	1250	572
35°	874	521
45°	307	246
55°	102	97
65°	12	15
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1553.4
2.5°	1533.1
5°	1505.8
7.5°	1490.3
10°	1477.3
12.5°	1455.9
15°	1427.3
17.5°	1391.7
20°	1346.6
22.5°	1299.0
25°	1250.3
27.5°	1190.9
30°	1116.0
32.5°	1015.0
35°	873.5
37.5°	675.0
40°	493.2
42.5°	379.1
45°	306.7
47.5°	252.0
50°	200.9
52.5°	151.0
55°	102.2
57.5°	64.2
60°	39.2
62.5°	23.7
65°	11.9
67.5°	5.9
70°	3.6
72.5°	1.2
75°	1.2
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)