

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: P593550

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593550  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC815D010-HM80520850-81WDBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1780.2 lumens  
Efficiency: N/A  
Efficacy: 127.2 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

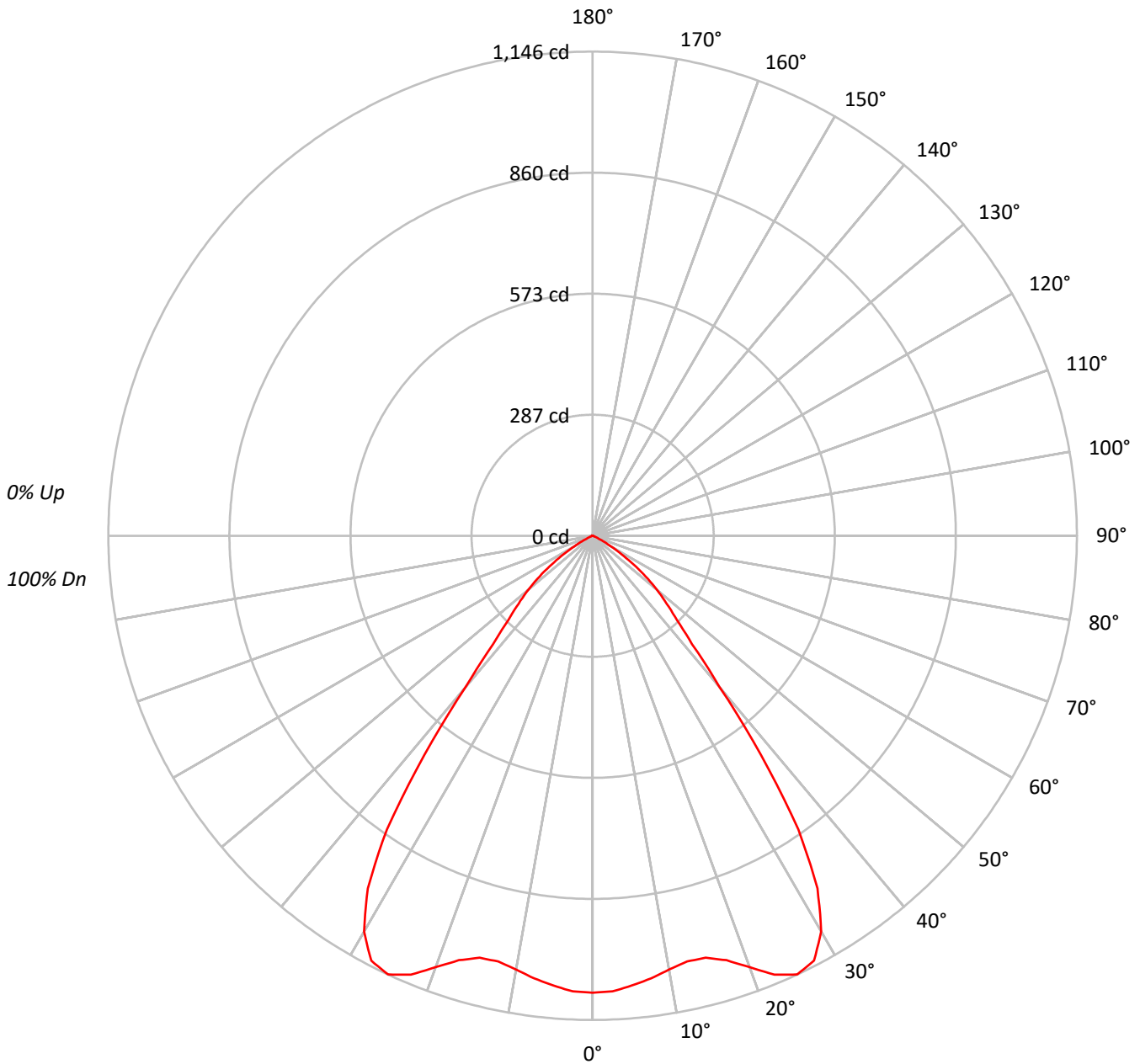
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92				92
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83				83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75				75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68				68
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62				62
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56				56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51				51
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47				47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43				43
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40				40

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

	0°
0°	33353
5°	33078
10°	32640
15°	33013
20°	35651
25°	38985
30°	38512
35°	31949
40°	18807
45°	12285
50°	9523
55°	6328
60°	3077
65°	956
70°	325
75°	286
80°	213
85°	425



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.2	5.7
10°-20°	297.1	16.7
20°-30°	519.4	29.2
30°-40°	505.3	28.4
40°-50°	229.8	12.9
50°-60°	106.6	6.0
60°-70°	17.9	1.0
70°-80°	2.2	0.1
80°-90°	0.8	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°	917.7	51.6
0°-40°	1423.0	79.9
0°-60°	1759.3	98.8
0°-90°	1780.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1780.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1082	
5°	1069	101
15°	1034	297
25°	1146	519
35°	849	505
45°	282	230
55°	118	107
65°	13	18
75°	2	2
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1081.6
2.5°	1079.3
5°	1068.6
7.5°	1056.7
10°	1042.4
12.5°	1031.7
15°	1034.1
17.5°	1053.2
20°	1086.4
22.5°	1124.4
25°	1145.8
27.5°	1133.9
30°	1081.6
32.5°	990.1
35°	848.7
37.5°	653.7
40°	467.2
42.5°	348.2
45°	281.7
47.5°	237.7
50°	198.5
52.5°	158.1
55°	117.7
57.5°	80.9
60°	49.9
62.5°	27.4
65°	13.1
67.5°	5.9
70°	3.6
72.5°	2.4
75°	2.4
77.5°	1.2
80°	1.2
82.5°	1.2
85°	1.2
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)