

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: P583937

Luminaire Tested: **HC815D010-HM80520935-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583937
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: HC815D010-HM80520935-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1374.4 lumens
Efficiency: N/A
Efficacy: 98.2 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

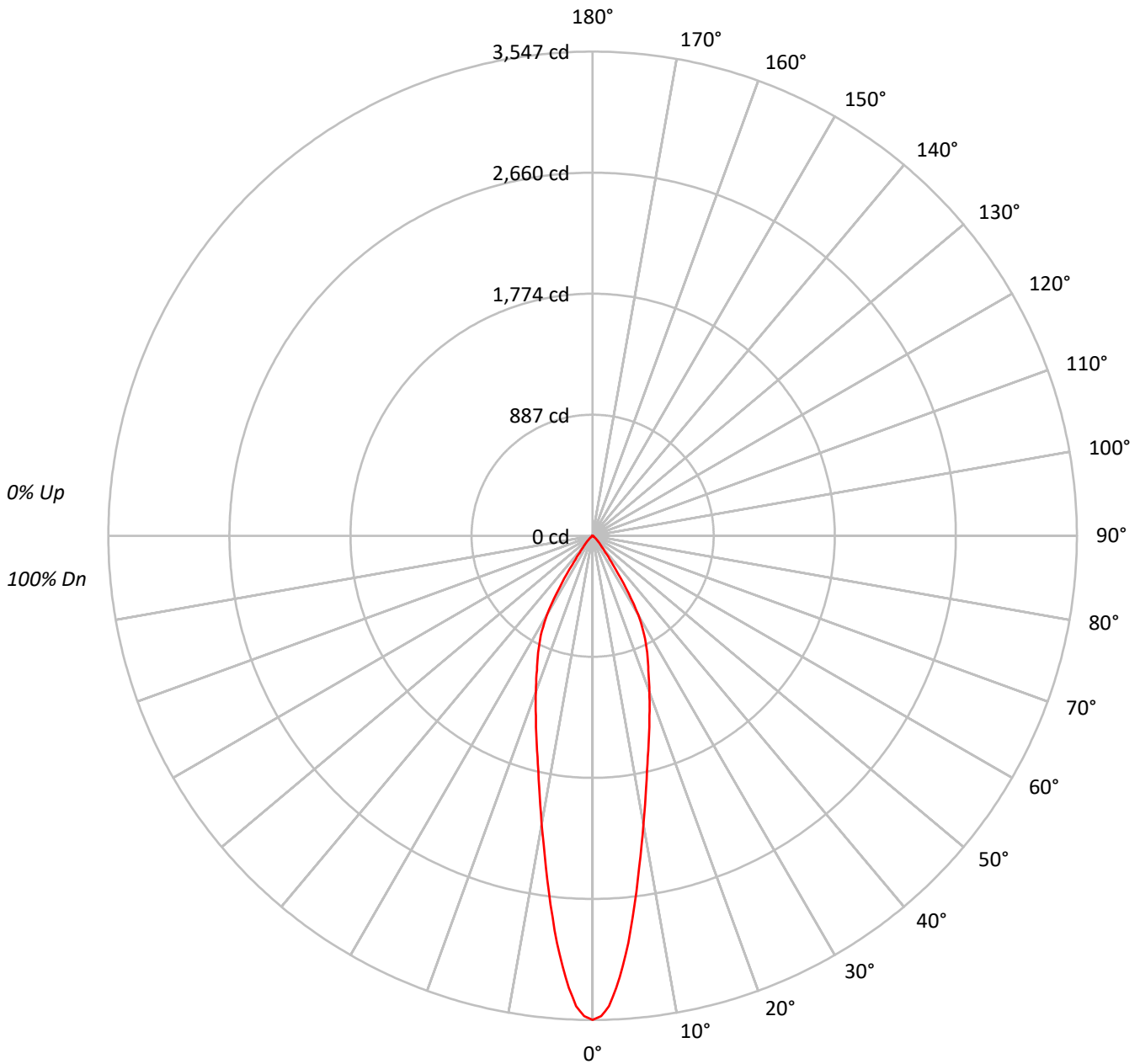
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95		
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89		
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84		
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80		
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75		
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72		
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68		
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65		
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62		
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	109367
5°	92655
10°	67224
15°	50485
20°	39835
25°	32132
30°	23810
35°	9648
40°	4070
45°	2180
50°	979
55°	495
60°	315
65°	219
70°	180
75°	119
80°	178
85°	354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.0	18.7
10°-20°	444.2	32.3
20°-30°	429.4	31.2
30°-40°	188.6	13.7
40°-50°	40.8	3.0
50°-60°	9.2	0.7
60°-70°	3.1	0.2
70°-80°	1.2	0.1
80°-90°	1.0	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°	1130.6	82.3
0°-40°	1319.2	96.0
0°-60°	1369.2	99.6
0°-90°	1374.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1374.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3547	
5°	2993	257
15°	1581	444
25°	944	429
35°	256	189
45°	50	41
55°	9	9
65°	3	3
75°	1	1
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3546.7
1°	3520.2
2°	3447.6
3°	3317.0
4°	3160.8
5°	2993.3
6°	2810.7
7°	2626.9
8°	2454.3
9°	2294.1
10°	2146.9
11°	2008.1
12°	1883.7
13°	1770.3
14°	1670.3
15°	1581.4
17.5°	1382.4
20°	1213.9
22.5°	1065.8
25°	944.4
27.5°	820.8
30°	668.7
32.5°	454.3
35°	256.3
37.5°	151.1
40°	101.1
42.5°	71.5
45°	50.0
47.5°	32.7
50°	20.4
52.5°	12.3
55°	9.2
57.5°	7.1
60°	5.1
62.5°	4.1
65°	3.0
67.5°	2.0
70°	2.0
72.5°	1.0
75°	1.0
77.5°	1.0
80°	1.0
82.5°	1.0



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°		1.0
87.5°		1.0



(END OF REPORT)