

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: P583953

Luminaire Tested: **HC815D010-HM80520940-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC815D010-HM80520940-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1552.4 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

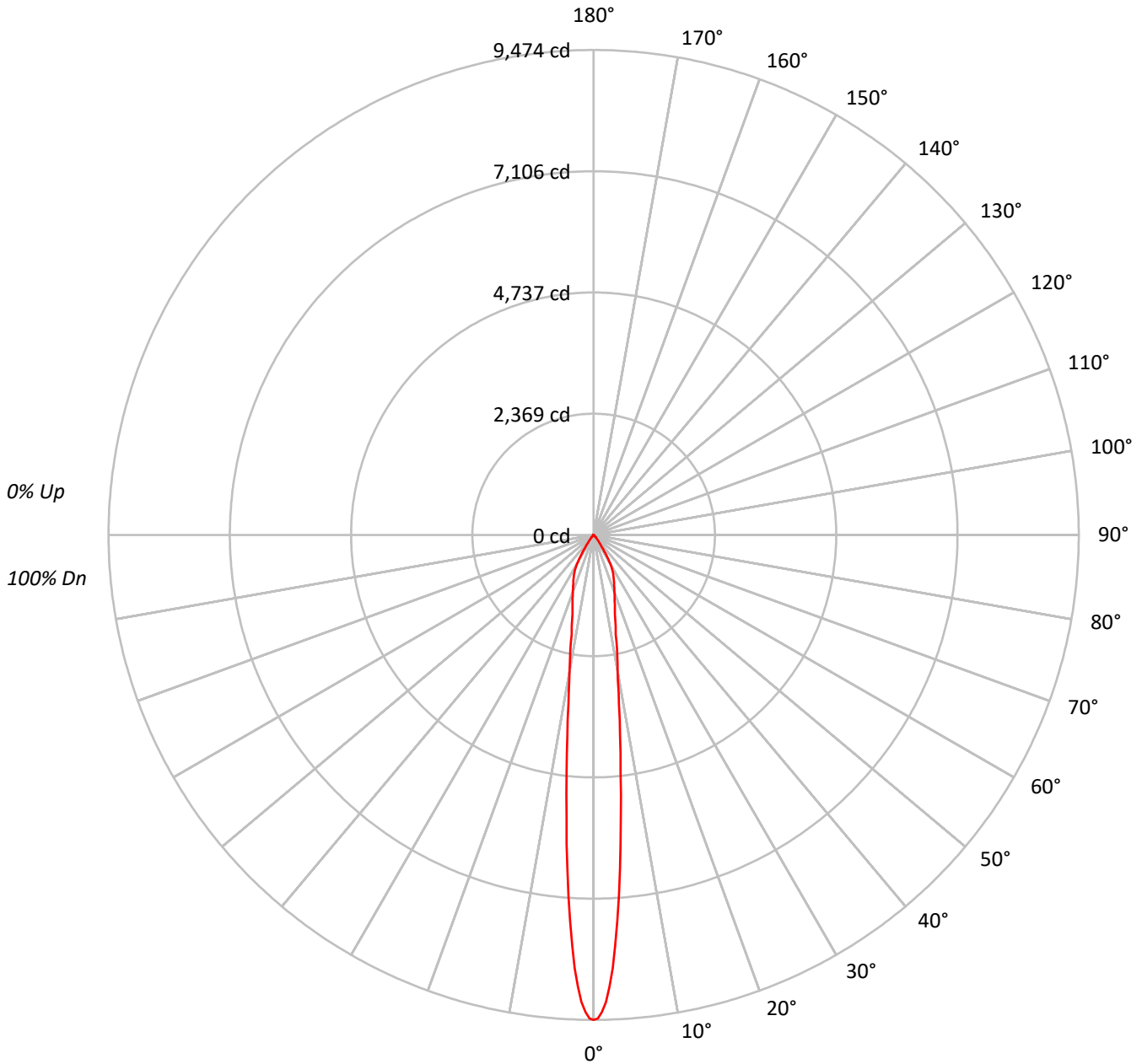
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	115	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96		
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91		
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87		
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83		
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80		
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76		
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73		
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71		
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68		
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	292156
5°	187393
10°	84652
15°	51079
20°	38922
25°	31435
30°	23030
35°	8342
40°	3116
45°	1413
50°	451
55°	108
60°	68
65°	80
70°	0
75°	0
80°	195
85°	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.7	29.7
10°-20°	469.0	30.2
20°-30°	419.8	27.0
30°-40°	169.1	10.9
40°-50°	27.7	1.8
50°-60°	2.5	0.2
60°-70°	1.0	0.1
70°-80°	0.7	0.0
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°	1350.5	87.0
0°-40°	1519.7	97.9
0°-60°	1549.9	99.8
0°-90°	1552.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1552.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9474	
5°	6054	462
15°	1600	469
25°	924	420
35°	222	169
45°	32	28
55°	2	3
65°	1	1
75°	0	1
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9474.4
0.5°	9445.2
1°	9322.8
1.5°	9126.4
2°	8828.6
2.5°	8476.3
3°	8035.3
3.5°	7551.5
4°	7072.9
4.5°	6536.8
5°	6053.9
5.5°	5528.3
6°	5102.0
6.5°	4657.8
7°	4308.7
7.5°	3939.9
8°	3643.1
8.5°	3345.2
9°	3121.6
9.5°	2874.9
10°	2703.5
12.5°	1993.9
15°	1600.0
17.5°	1367.0
20°	1186.1
22.5°	1042.0
25°	923.9
27.5°	805.8
30°	646.8
32.5°	416.0
35°	221.6
37.5°	122.3
40°	77.4
42.5°	51.2
45°	32.4
47.5°	19.9
50°	9.4
52.5°	3.1
55°	2.0
57.5°	1.1
60°	1.1
62.5°	1.1
65°	1.1



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	1.1
80°	1.1
82.5°	1.1
85°	1.1
87.5°	1.1
90°	0.0



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— 0°-180°







67.5°		1.1
70°		0.0



(END OF REPORT)