

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: P593556

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593556
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-HM80520850-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1764.8 lumens
Efficiency: N/A
Efficacy: 126.1 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

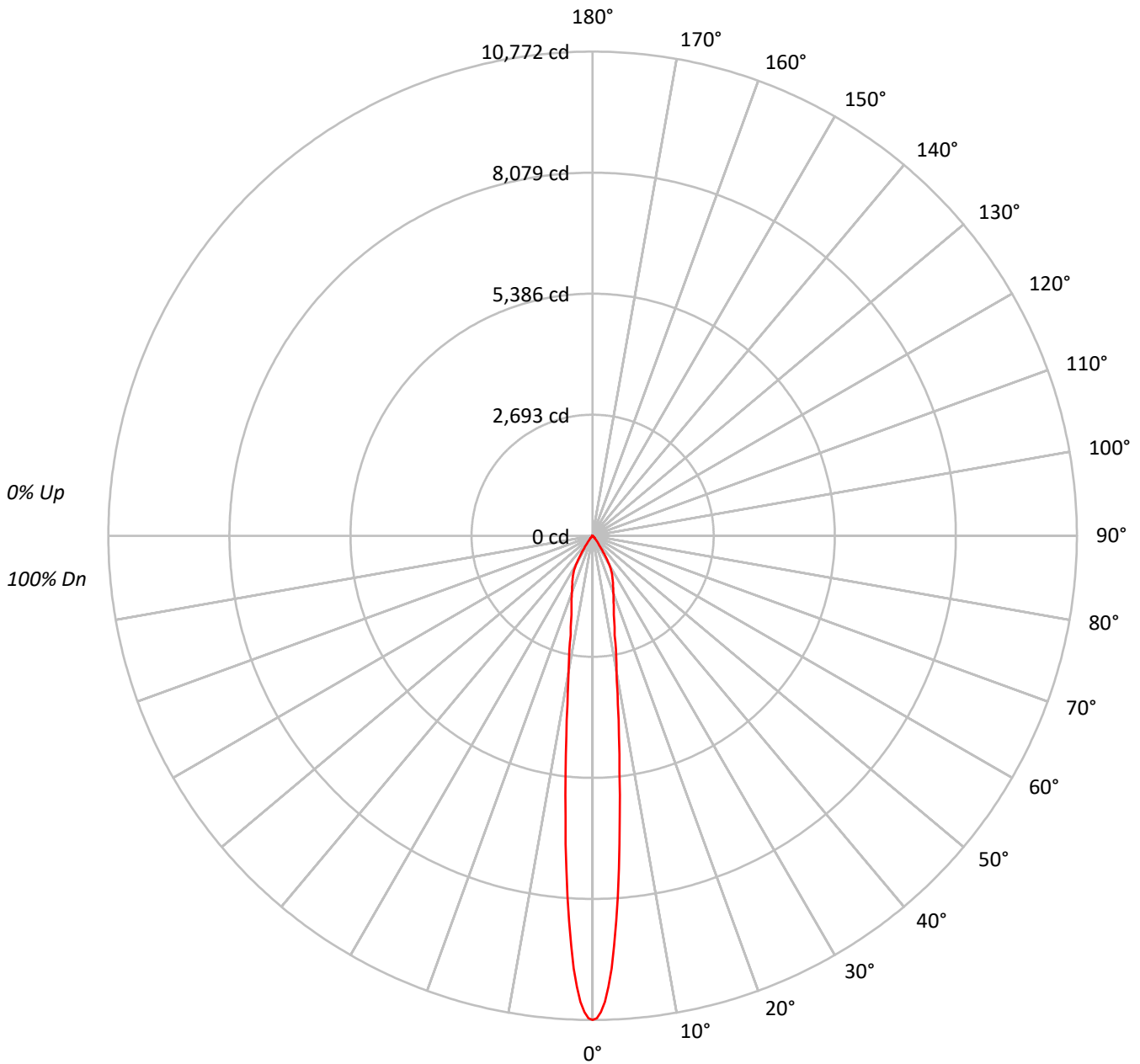
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	332156
5°	213051
10°	96244
15°	58073
20°	44251
25°	35736
30°	26185
35°	9479
40°	3542
45°	1609
50°	513
55°	129
60°	74
65°	88
70°	0
75°	0
80°	213
85°	425



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.9	29.7
10°-20°	533.2	30.2
20°-30°	477.3	27.0
30°-40°	192.3	10.9
40°-50°	31.5	1.8
50°-60°	2.9	0.2
60°-70°	1.0	0.1
70°-80°	0.8	0.0
80°-90°	1.1	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°	1535.4	87.0
0°-40°	1727.7	97.9
0°-60°	1762.1	99.8
0°-90°	1765.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1764.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10772	
5°	6883	525
15°	1819	533
25°	1050	477
35°	252	192
45°	37	32
55°	2	3
65°	1	1
75°	0	1
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	10771.6
0.5°	10738.4
1°	10599.3
1.5°	10375.9
2°	10037.3
2.5°	9637.0
3°	9135.6
3.5°	8585.4
4°	8041.3
4.5°	7431.7
5°	6882.8
5.5°	6285.2
6°	5800.5
6.5°	5295.5
7°	4898.7
7.5°	4479.2
8°	4141.8
8.5°	3803.2
9°	3549.0
9.5°	3268.6
10°	3073.7
12.5°	2267.0
15°	1819.1
17.5°	1554.1
20°	1348.5
22.5°	1184.5
25°	1050.3
27.5°	916.0
30°	735.4
32.5°	472.8
35°	251.8
37.5°	139.1
40°	88.0
42.5°	58.2
45°	36.9
47.5°	22.5
50°	10.7
52.5°	3.6
55°	2.4
57.5°	1.2
60°	1.2
62.5°	1.2
65°	1.2



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	1.2
80°	1.2
82.5°	1.2
85°	1.2
87.5°	1.2
90°	0.0



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— 0°-180°







67.5°		1.2
70°		0.0



(END OF REPORT)