

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: P584119

Luminaire Tested: **HC825D010-HM82555830-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584119
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: HC825D010-HM82555830-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2394.6 lumens
Efficiency: N/A
Efficacy: 89.3 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

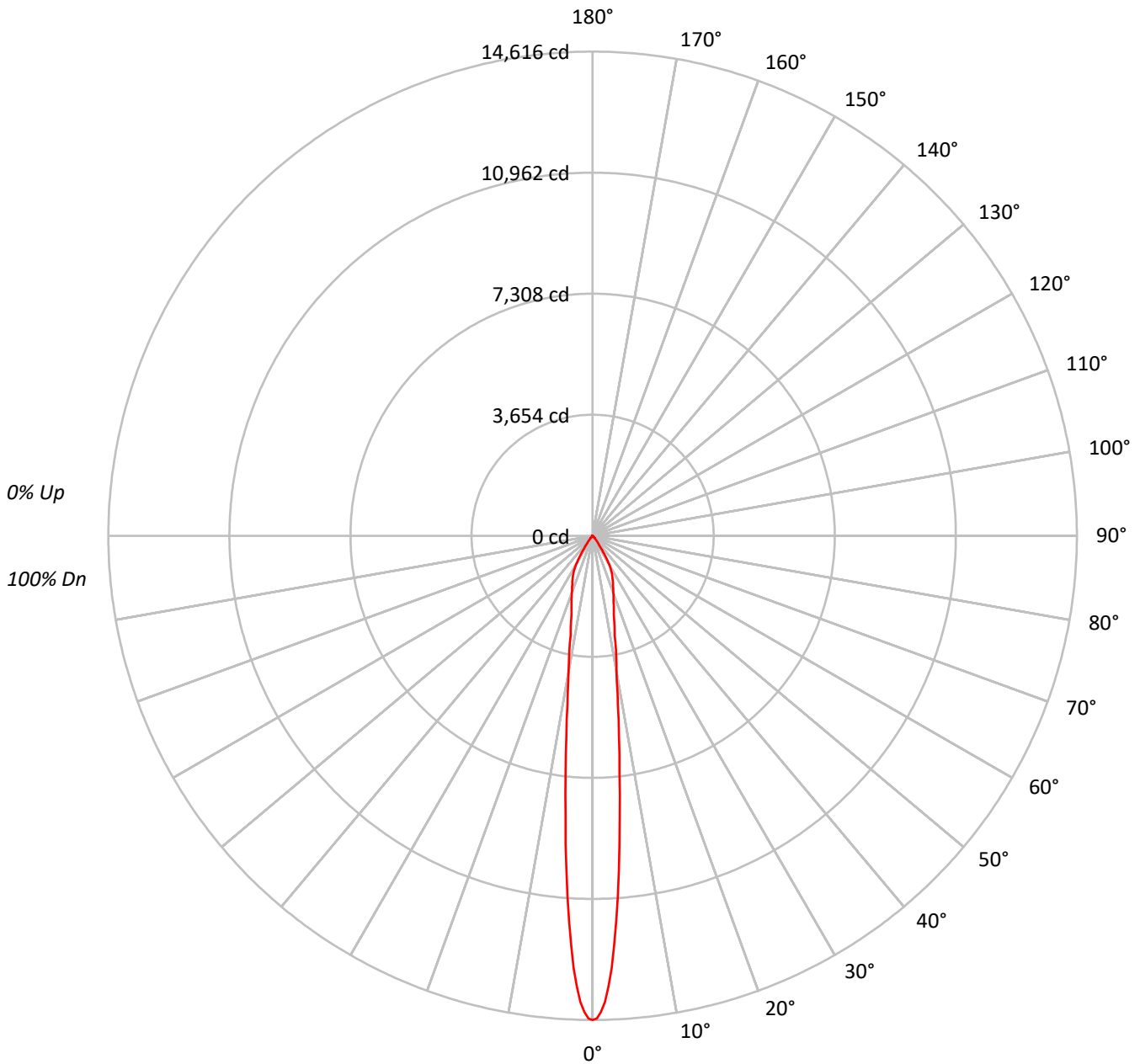
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584119

CATALOG NUMBER: HC825D010-HM82555830-81NDC

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	107	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°	450710
5°	289096
10°	130596
15°	78798
20°	60045
25°	48488
30°	35535
35°	12867
40°	4802
45°	2180
50°	700
55°	172
60°	99
65°	117
70°	0
75°	0
80°	284
85°	566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	712.3	29.7
10°-20°	723.5	30.2
20°-30°	647.7	27.0
30°-40°	260.9	10.9
40°-50°	42.8	1.8
50°-60°	3.9	0.2
60°-70°	1.4	0.1
70°-80°	1.1	0.0
80°-90°	1.5	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°	2083.5	87.0
0°-40°	2344.3	97.9
0°-60°	2391.0	99.9
0°-90°	2395.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2394.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14616	
5°	9340	712
15°	2468	723
25°	1425	648
35°	342	261
45°	50	43
55°	3	4
65°	2	1
75°	0	1
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	14616.2
0.5°	14571.0
1°	14382.4
1.5°	14079.3
2°	13619.8
2.5°	13076.5
3°	12396.2
3.5°	11649.7
4°	10911.3
4.5°	10084.3
5°	9339.5
5.5°	8528.5
6°	7870.7
6.5°	7185.6
7°	6647.1
7.5°	6078.0
8°	5620.1
8.5°	5160.6
9°	4815.6
9.5°	4435.2
10°	4170.8
12.5°	3076.0
15°	2468.3
17.5°	2108.8
20°	1829.8
22.5°	1607.4
25°	1425.1
27.5°	1243.0
30°	998.0
32.5°	641.7
35°	341.8
37.5°	188.6
40°	119.3
42.5°	79.0
45°	50.0
47.5°	30.6
50°	14.6
52.5°	4.8
55°	3.2
57.5°	1.6
60°	1.6
62.5°	1.6
65°	1.6



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	1.6
80°	1.6
82.5°	1.6
85°	1.6
87.5°	1.6
90°	0.0



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— 0°-180°







67.5°		1.6
70°		0.0



(END OF REPORT)