

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: P583444

Luminaire Tested: **HC805D010-HM80520830-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583444
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: HC805D010-HM80520830-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 638.9 lumens
Efficiency: N/A
Efficacy: 106.5 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

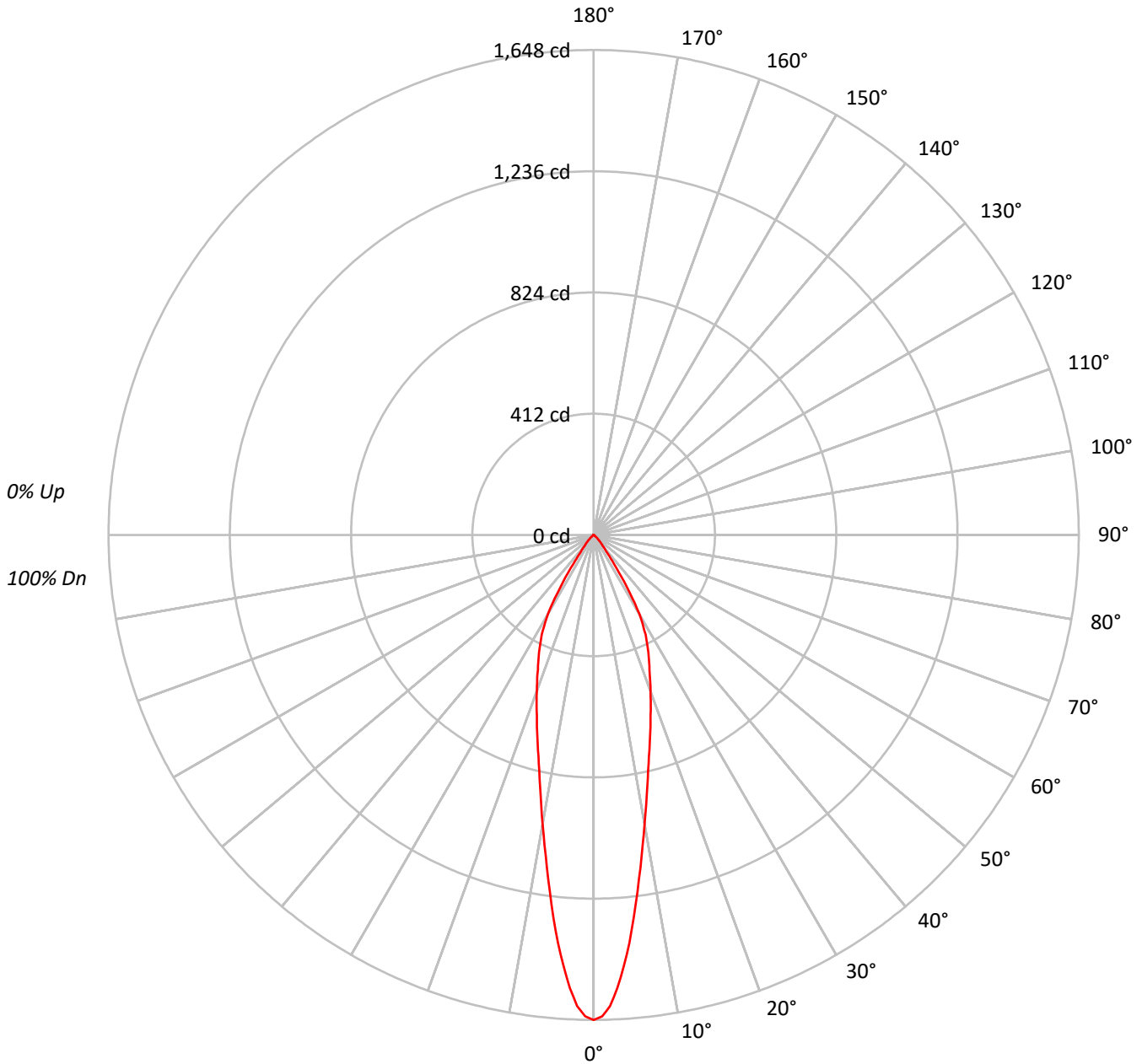
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	50831
5°	43063
10°	31243
15°	23464
20°	18511
25°	14933
30°	11063
35°	4483
40°	1888
45°	1012
50°	456
55°	231
60°	148
65°	102
70°	90
75°	60
80°	89
85°	177



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	18.7
10°-20°	206.4	32.3
20°-30°	199.6	31.2
30°-40°	87.7	13.7
40°-50°	18.9	3.0
50°-60°	4.3	0.7
60°-70°	1.5	0.2
70°-80°	0.6	0.1
80°-90°	0.5	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°	525.4	82.2
0°-40°	613.1	96.0
0°-60°	636.3	99.6
0°-90°	638.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	638.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1648	
5°	1391	119
15°	735	206
25°	439	200
35°	119	88
45°	23	19
55°	4	4
65°	1	1
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1648.4
1°	1636.1
2°	1602.3
3°	1541.6
4°	1469.1
5°	1391.2
6°	1306.3
7°	1220.8
8°	1140.6
9°	1066.2
10°	997.8
11°	933.3
12°	875.5
13°	822.8
14°	776.3
15°	735.0
17.5°	642.4
20°	564.1
22.5°	495.3
25°	438.9
27.5°	381.5
30°	310.7
32.5°	211.2
35°	119.1
37.5°	70.3
40°	46.9
42.5°	33.2
45°	23.2
47.5°	15.2
50°	9.5
52.5°	5.7
55°	4.3
57.5°	3.4
60°	2.4
62.5°	1.9
65°	1.4
67.5°	1.0
70°	1.0
72.5°	0.5
75°	0.5
77.5°	0.5
80°	0.5
82.5°	0.5



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°		0.5
87.5°		0.5



(END OF REPORT)