

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: P583460

Luminaire Tested: **HC805D010-HM80520835-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583460
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: HC805D010-HM80520835-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 728.9 lumens
Efficiency: N/A
Efficacy: 121.5 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

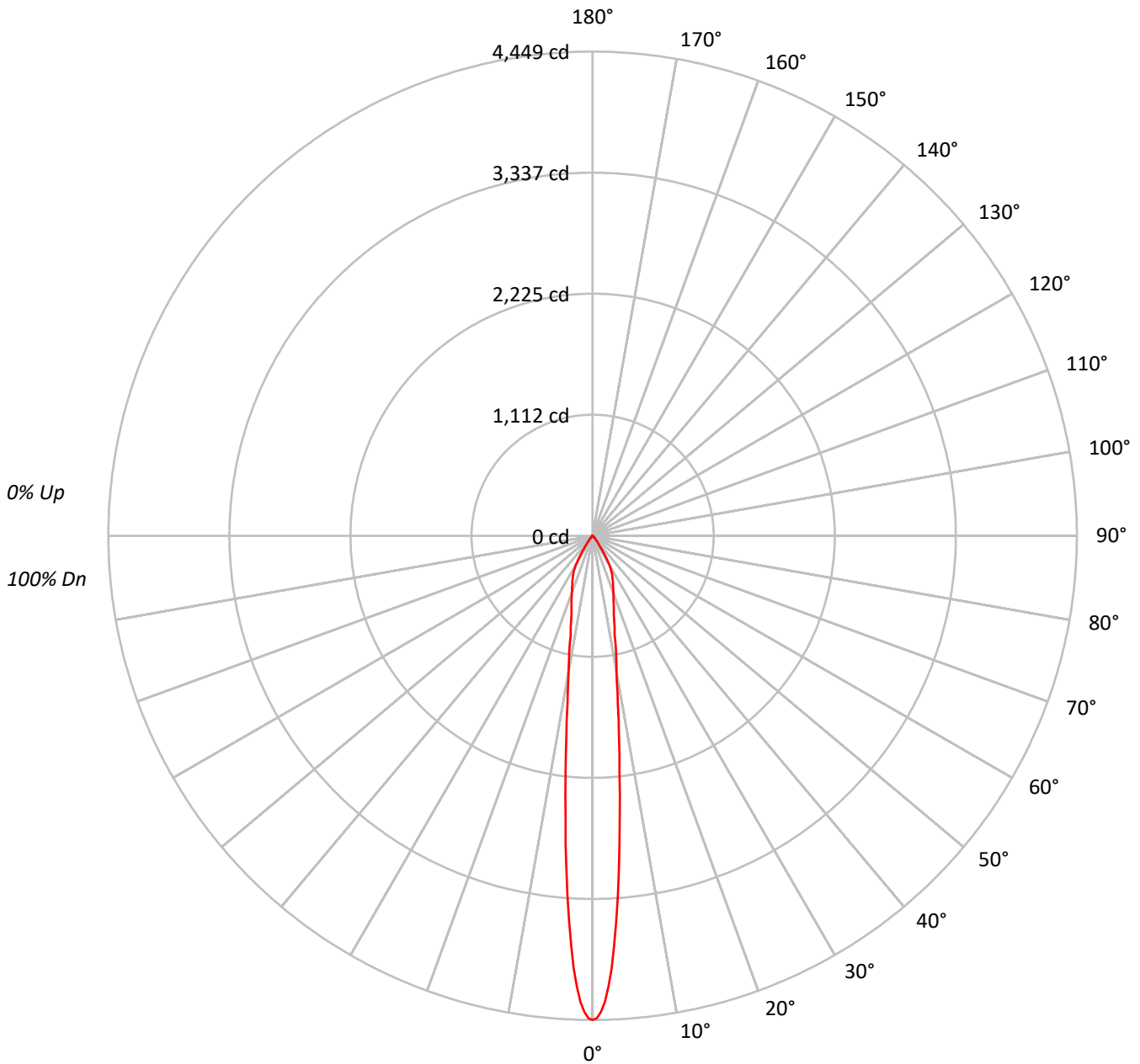
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583460

CATALOG NUMBER: HC805D010-HM80520835-81NDC

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	137188
5°	87996
10°	39751
15°	23988
20°	18278
25°	14760
30°	10817
35°	3915
40°	1461
45°	663
50°	211
55°	54
60°	31
65°	36
70°	0
75°	0
80°	89
85°	177



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.8	29.7
10°-20°	220.2	30.2
20°-30°	197.1	27.0
30°-40°	79.4	10.9
40°-50°	13.0	1.8
50°-60°	1.2	0.2
60°-70°	0.4	0.1
70°-80°	0.3	0.0
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°	634.2	87.0
0°-40°	713.6	97.9
0°-60°	727.8	99.8
0°-90°	729.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	728.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4449	
5°	2843	217
15°	751	220
25°	434	197
35°	104	79
45°	15	13
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P583460

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CANDELA DISTRIBUTION (FULL):

	0°
0°	4448.9
0.5°	4435.1
1°	4377.8
1.5°	4285.5
2°	4145.7
2.5°	3980.3
3°	3773.2
3.5°	3546.0
4°	3321.2
4.5°	3069.5
5°	2842.8
5.5°	2595.9
6°	2395.7
6.5°	2187.2
7°	2023.3
7.5°	1850.1
8°	1710.6
8.5°	1570.8
9°	1465.8
9.5°	1350.0
10°	1269.5
12.5°	936.3
15°	751.4
17.5°	641.8
20°	557.0
22.5°	489.2
25°	433.8
27.5°	378.4
30°	303.8
32.5°	195.4
35°	104.0
37.5°	57.5
40°	36.3
42.5°	24.1
45°	15.2
47.5°	9.3
50°	4.4
52.5°	1.4
55°	1.0
57.5°	0.5
60°	0.5
62.5°	0.5
65°	0.5



TEST NUMBER: P583460

CATALOG NUMBER: HC805D010-HM80520835-81NDC

CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	0.5
80°	0.5
82.5°	0.5
85°	0.5
87.5°	0.5
90°	0.0



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— 0°-180°







67.5°		0.5
70°		0.0



(END OF REPORT)