

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: P583732

Luminaire Tested: **HC810D010-HM80520835-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583732
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: HC810D010-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: 1196.5 lumens
Efficiency: N/A
Efficacy: 120.9 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

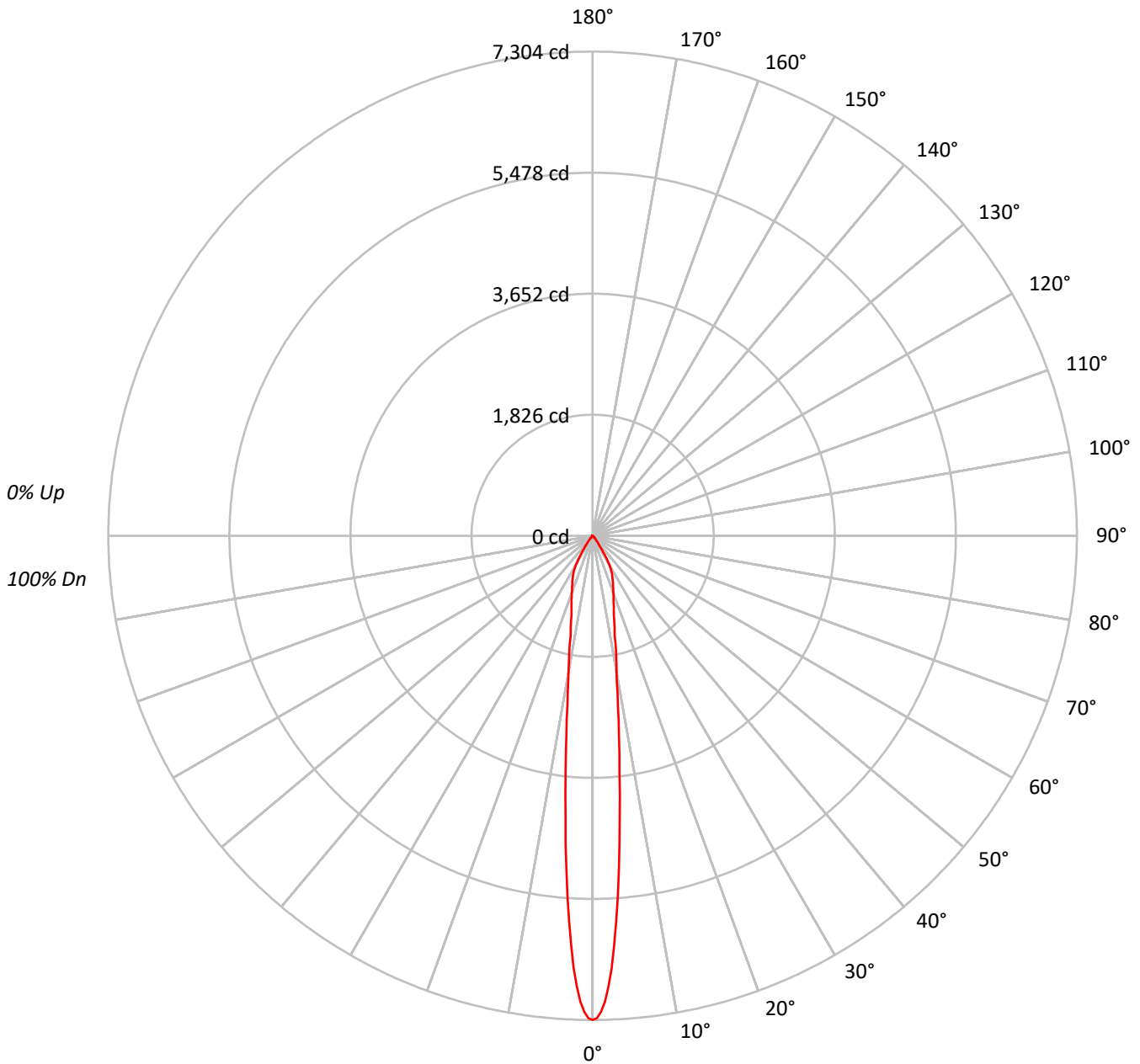
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583732

CATALOG NUMBER: HC810D010-HM80520835-81NDC

Luminous Intensity Polar Plot





TEST NUMBER: P583732

CATALOG NUMBER: HC810D010-HM80520835-81NDC

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°	225219
5°	144460
10°	65257
15°	39375
20°	30006
25°	24232
30°	17757
35°	6430
40°	2399
45°	1090
50°	345
55°	86
60°	49
65°	58
70°	0
75°	0
80°	142
85°	283



TEST NUMBER: P583732

CATALOG NUMBER: HC810D010-HM80520835-81NDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.9	29.7
10°-20°	361.5	30.2
20°-30°	323.6	27.0
30°-40°	130.4	10.9
40°-50°	21.4	1.8
50°-60°	1.9	0.2
60°-70°	0.7	0.1
70°-80°	0.5	0.0
80°-90°	0.8	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°	1041.1	87.0
0°-40°	1171.5	97.9
0°-60°	1194.8	99.9
0°-90°	1196.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1196.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7304	
5°	4667	356
15°	1233	362
25°	712	324
35°	171	130
45°	25	21
55°	2	2
65°	1	1
75°	0	1
85°	1	1
90°	0	



TEST NUMBER: P583732

CATALOG NUMBER: HC810D010-HM80520835-81NDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	7303.7
0.5°	7281.1
1°	7186.9
1.5°	7035.4
2°	6805.8
2.5°	6534.3
3°	6194.4
3.5°	5821.4
4°	5452.4
4.5°	5039.1
5°	4666.9
5.5°	4261.7
6°	3933.1
6.5°	3590.6
7°	3321.5
7.5°	3037.2
8°	2808.4
8.5°	2578.8
9°	2406.4
9.5°	2216.2
10°	2084.1
12.5°	1537.1
15°	1233.4
17.5°	1053.8
20°	914.4
22.5°	803.2
25°	712.2
27.5°	621.1
30°	498.7
32.5°	320.7
35°	170.8
37.5°	94.2
40°	59.6
42.5°	39.4
45°	25.0
47.5°	15.3
50°	7.2
52.5°	2.4
55°	1.6
57.5°	0.8
60°	0.8
62.5°	0.8
65°	0.8



TEST NUMBER: P583732

CATALOG NUMBER: HC810D010-HM80520835-81NDC

CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	0.8
80°	0.8
82.5°	0.8
85°	0.8
87.5°	0.8
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







67.5°		0.8
70°		0.0



(END OF REPORT)