

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: P583424

Luminaire Tested: **HC805D010-HM80520827-81MDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC805D010-HM80520827-81MDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 700.7 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

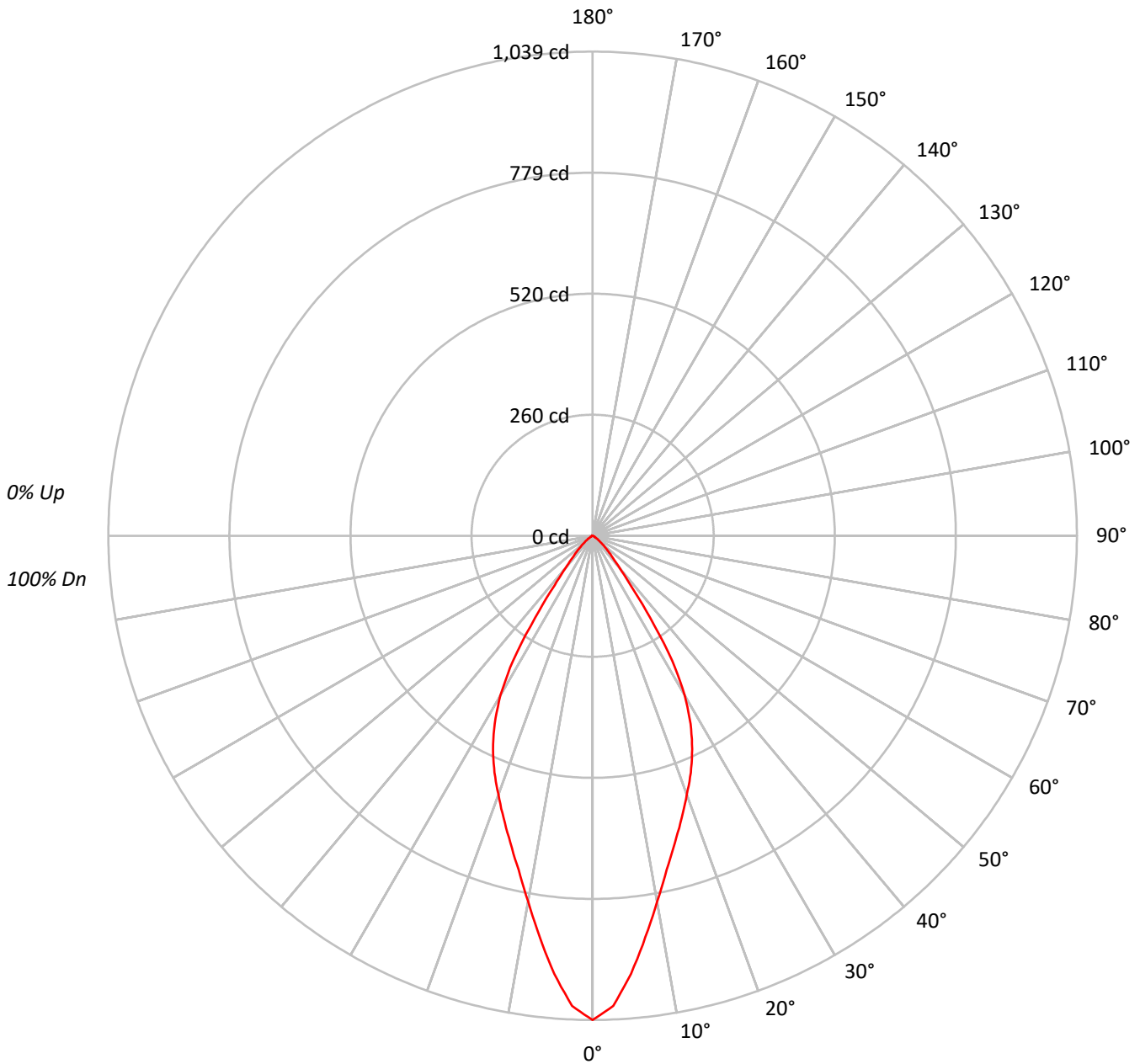
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583424

CATALOG NUMBER: HC805D010-HM80520827-81MDH

Luminous Intensity Polar Plot





TEST NUMBER: P583424

CATALOG NUMBER: HC805D010-HM80520827-81MDH

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			
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81			
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76			
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71			
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66			
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58			
9	76	67	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55			
10	73	63	57	54	72	63	57	53	62	57	53	61	56	53	60	56	53	52			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	32042
5°	29202
10°	24946
15°	21756
20°	19394
25°	17203
30°	14082
35°	8090
40°	3591
45°	2089
50°	1204
55°	688
60°	382
65°	248
70°	171
75°	119
80°	89
85°	177



TEST NUMBER: P583424

CATALOG NUMBER: HC805D010-HM80520827-81MDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	12.2
10°-20°	191.6	27.3
20°-30°	229.3	32.7
30°-40°	138.7	19.8
40°-50°	38.9	5.5
50°-60°	12.1	1.7
60°-70°	3.5	0.5
70°-80°	1.0	0.1
80°-90°	0.3	0.0
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°	506.3	72.2
0°-40°	645.0	92.0
0°-60°	695.9	99.3
0°-90°	700.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	700.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1039	
5°	943	85
15°	682	192
25°	506	229
35°	215	139
45°	48	39
55°	13	12
65°	3	3
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P583424

CATALOG NUMBER: HC805D010-HM80520827-81MDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	1039.1
2.5°	1009.7
5°	943.4
7.5°	868.4
10°	796.7
12.5°	734.1
15°	681.5
17.5°	635.0
20°	591.0
22.5°	550.1
25°	505.6
27.5°	455.3
30°	395.5
32.5°	318.3
35°	214.9
37.5°	133.7
40°	89.2
42.5°	64.0
45°	47.9
47.5°	35.1
50°	25.1
52.5°	17.6
55°	12.8
57.5°	8.5
60°	6.2
62.5°	4.3
65°	3.4
67.5°	2.4
70°	1.9
72.5°	1.0
75°	1.0
77.5°	0.5
80°	0.5
82.5°	0.5
85°	0.5
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)