

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: P583969

Luminaire Tested: **HC820D010-HM80520827-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC820D010-HM80520827-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2156.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

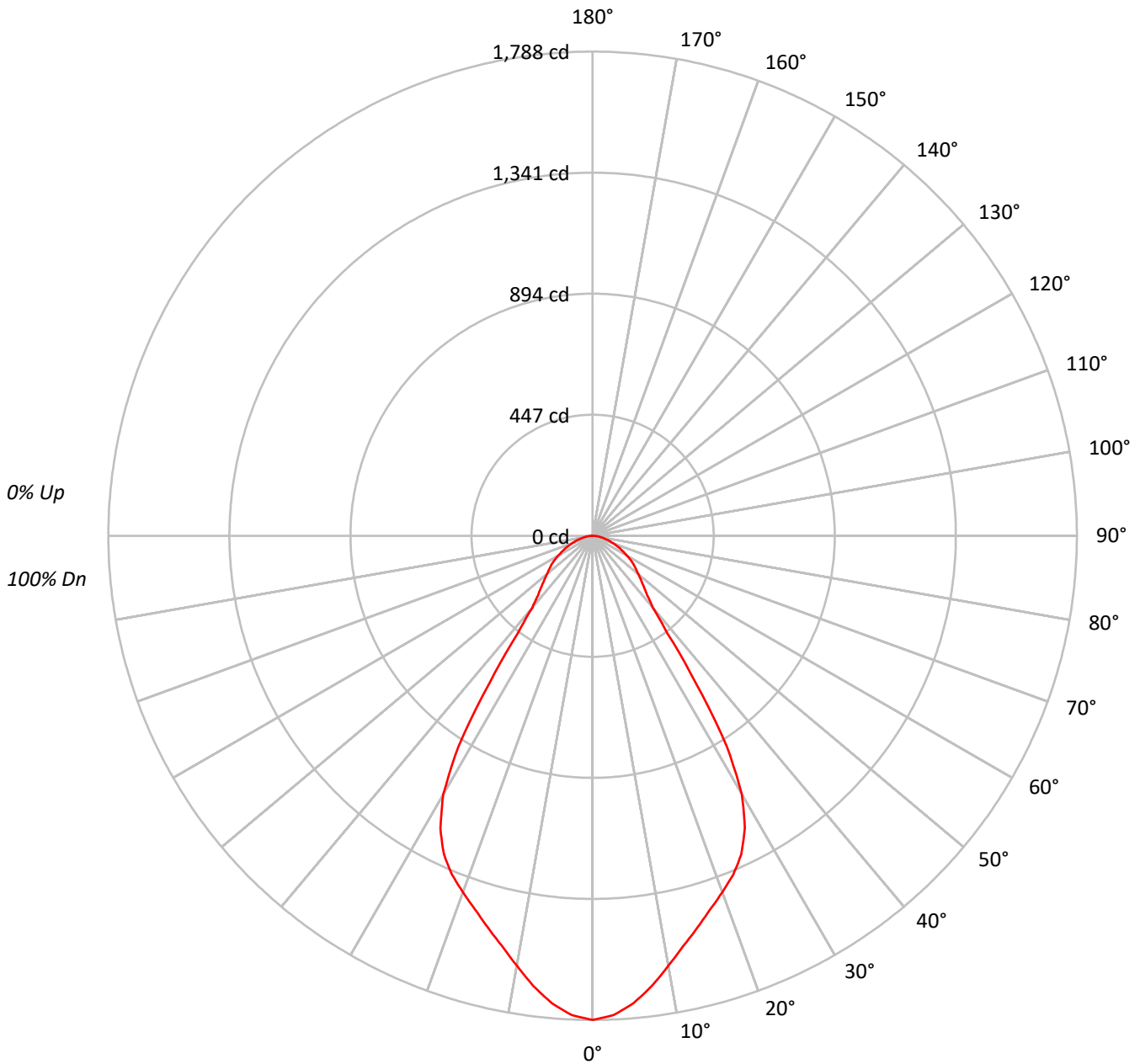
Input Watts (W): 20
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583969

CATALOG NUMBER: HC820D010-HM80520827-81MDW

Luminous Intensity Polar Plot





TEST NUMBER: P583969

CATALOG NUMBER: HC820D010-HM80520827-81MDW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
RC	80									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	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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90																											
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80																											
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72																											
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65																											
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59																											
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54																											
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50																											
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46																											
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43																											
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	55129
5°	53628
10°	50466
15°	47778
20°	45961
25°	44187
30°	39242
35°	24992
40°	13944
45°	11679
50°	10549
55°	9940
60°	9066
65°	8179
70°	7213
75°	6422
80°	5683
85°	5130



TEST NUMBER: P583969

CATALOG NUMBER: HC820D010-HM80520827-81MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.5	7.5
10°-20°	422.1	19.6
20°-30°	588.8	27.3
30°-40°	423.7	19.7
40°-50°	210.0	9.7
50°-60°	164.3	7.6
60°-70°	111.2	5.2
70°-80°	57.8	2.7
80°-90°	16.6	0.8
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°	1172.4	54.4
0°-40°	1596.2	74.0
0°-60°	1970.4	91.4
0°-90°	2156.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2156.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1788	
5°	1732	162
15°	1497	422
25°	1299	589
35°	664	424
45°	268	210
55°	185	164
65°	112	111
75°	54	58
85°	14	17
90°	0	



TEST NUMBER: P583969

CATALOG NUMBER: HC820D010-HM80520827-81MDW

CANDELA DISTRIBUTION (FULL):

0°	
0°	1787.8
2.5°	1771.8
5°	1732.5
7.5°	1677.1
10°	1611.7
12.5°	1550.5
15°	1496.6
17.5°	1445.7
20°	1400.6
22.5°	1355.4
25°	1298.7
27.5°	1217.1
30°	1102.1
32.5°	921.6
35°	663.9
37.5°	452.8
40°	346.4
42.5°	298.5
45°	267.8
47.5°	241.7
50°	219.9
52.5°	200.9
55°	184.9
57.5°	166.0
60°	147.0
62.5°	128.1
65°	112.1
67.5°	96.1
70°	80.0
72.5°	67.0
75°	53.9
77.5°	42.2
80°	32.0
82.5°	23.3
85°	14.5
87.5°	7.3
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)