

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: P584032

Luminaire Tested: **HC820D010-HM80520927-81MDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584032
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: HC820D010-HM80520927-81MDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1745.9 lumens
Efficiency: N/A
Efficacy: 87.3 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

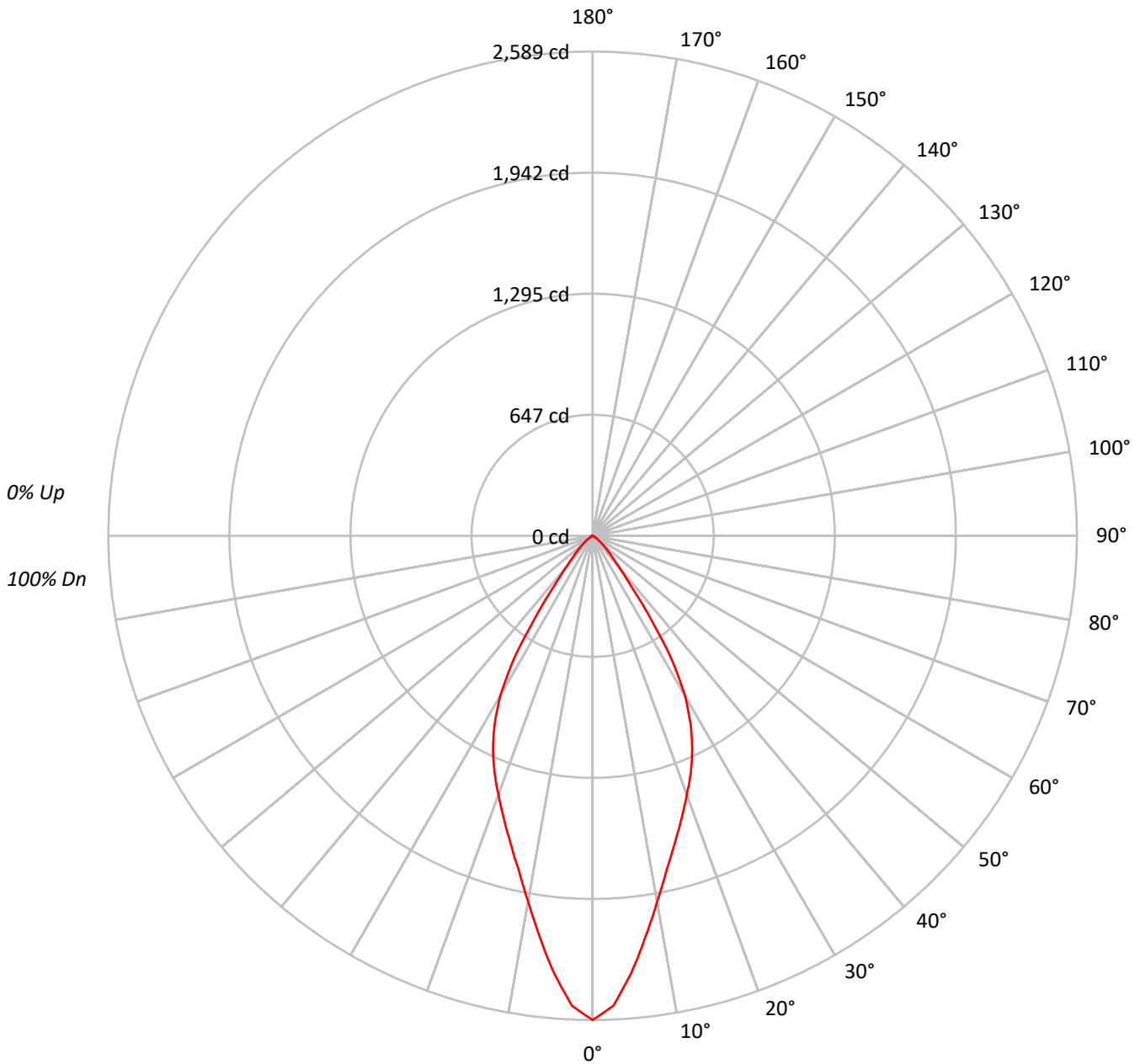
Input Watts (W): 20
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584032

CATALOG NUMBER: HC820D010-HM80520927-81MDH

Luminous Intensity Polar Plot





TEST NUMBER: P584032

CATALOG NUMBER: HC820D010-HM80520927-81MDH

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	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	85	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	61	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°	79841
5°	72758
10°	62164
15°	54214
20°	48317
25°	42864
30°	35094
35°	20151
40°	8944
45°	5207
50°	3003
55°	1715
60°	950
65°	606
70°	424
75°	286
80°	213
85°	425



TEST NUMBER: P584032

CATALOG NUMBER: HC820D010-HM80520927-81MDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.8	12.2
10°-20°	477.3	27.3
20°-30°	571.4	32.7
30°-40°	345.6	19.8
40°-50°	96.9	5.6
50°-60°	30.1	1.7
60°-70°	8.6	0.5
70°-80°	2.4	0.1
80°-90°	0.8	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°	1261.5	72.3
0°-40°	1607.1	92.1
0°-60°	1734.1	99.3
0°-90°	1745.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1745.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2589	
5°	2350	213
15°	1698	477
25°	1260	571
35°	535	346
45°	119	97
55°	32	30
65°	8	9
75°	2	2
85°	1	1
90°	0	



TEST NUMBER: P584032

CATALOG NUMBER: HC820D010-HM80520927-81MDH

CANDELA DISTRIBUTION (FULL):

0°	
0°	2589.2
2.5°	2515.9
5°	2350.5
7.5°	2163.8
10°	1985.3
12.5°	1829.3
15°	1698.2
17.5°	1582.3
20°	1472.4
22.5°	1370.8
25°	1259.8
27.5°	1134.5
30°	985.6
32.5°	792.9
35°	535.3
37.5°	333.2
40°	222.2
42.5°	159.6
45°	119.4
47.5°	87.5
50°	62.6
52.5°	43.7
55°	31.9
57.5°	21.3
60°	15.4
62.5°	10.6
65°	8.3
67.5°	5.9
70°	4.7
72.5°	2.4
75°	2.4
77.5°	1.2
80°	1.2
82.5°	1.2
85°	1.2
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)