

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: P584044

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC820D010-HM80520927-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1946.7 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

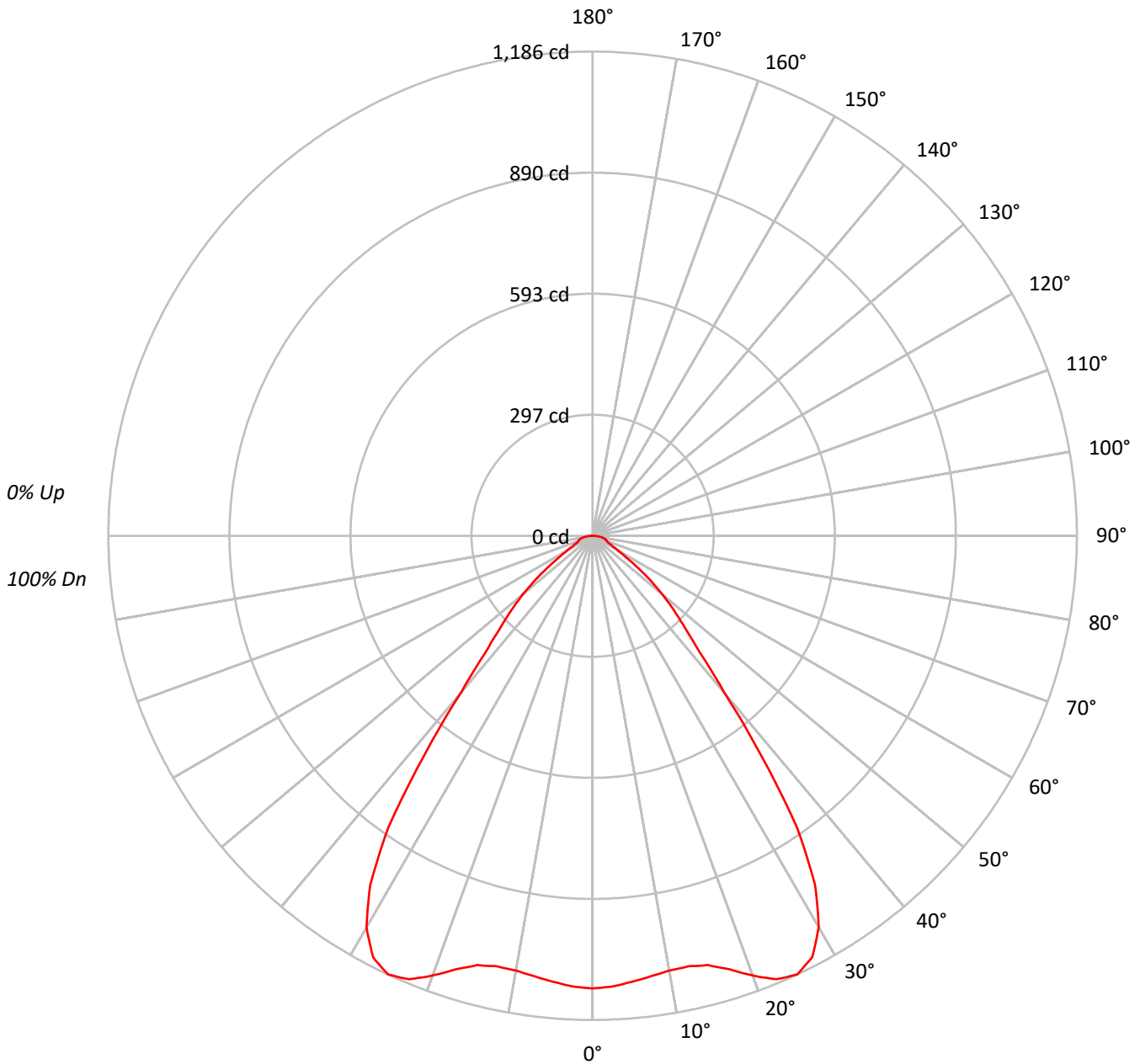
Input Watts (W): 20
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584044

CATALOG NUMBER: HC820D010-HM80520927-81WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P584044

CATALOG NUMBER: HC820D010-HM80520927-81WDWB

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	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90		
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59		
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49		
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45		
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41		
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	34188
5°	33954
10°	33864
15°	34753
20°	37623
25°	40336
30°	39434
35°	32837
40°	20175
45°	13968
50°	10660
55°	6989
60°	4373
65°	3276
70°	3300
75°	3801
80°	4191
85°	3750



TEST NUMBER: P584044

CATALOG NUMBER: HC820D010-HM80520927-81WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.2	5.4
10°-20°	312.5	16.1
20°-30°	538.0	27.6
30°-40°	521.2	26.8
40°-50°	256.7	13.2
50°-60°	121.1	6.2
60°-70°	47.7	2.5
70°-80°	32.9	1.7
80°-90°	12.2	0.6
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°	954.7	49.0
0°-40°	1475.9	75.8
0°-60°	1853.8	95.2
0°-90°	1946.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1946.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1109	
5°	1097	104
15°	1089	312
25°	1186	538
35°	872	521
45°	320	257
55°	130	121
65°	45	48
75°	32	33
85°	11	12
90°	0	



TEST NUMBER: P584044

CATALOG NUMBER: HC820D010-HM80520927-81WDWB

CANDELA DISTRIBUTION (FULL):

	0°
0°	1108.7
2.5°	1105.2
5°	1096.9
7.5°	1088.6
10°	1081.5
12.5°	1080.3
15°	1088.6
17.5°	1113.4
20°	1146.5
22.5°	1176.1
25°	1185.5
27.5°	1164.3
30°	1107.5
32.5°	1014.2
35°	872.3
37.5°	677.3
40°	501.2
42.5°	388.9
45°	320.3
47.5°	269.5
50°	222.2
52.5°	174.9
55°	130.0
57.5°	94.6
60°	70.9
62.5°	55.6
65°	44.9
67.5°	39.0
70°	36.6
72.5°	34.3
75°	31.9
77.5°	28.4
80°	23.6
82.5°	17.7
85°	10.6
87.5°	4.7
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)