

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: P584023

Luminaire Tested: **HC820D010-HM80520840-81WDBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC820D010-HM80520840-81WDBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2424.3 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

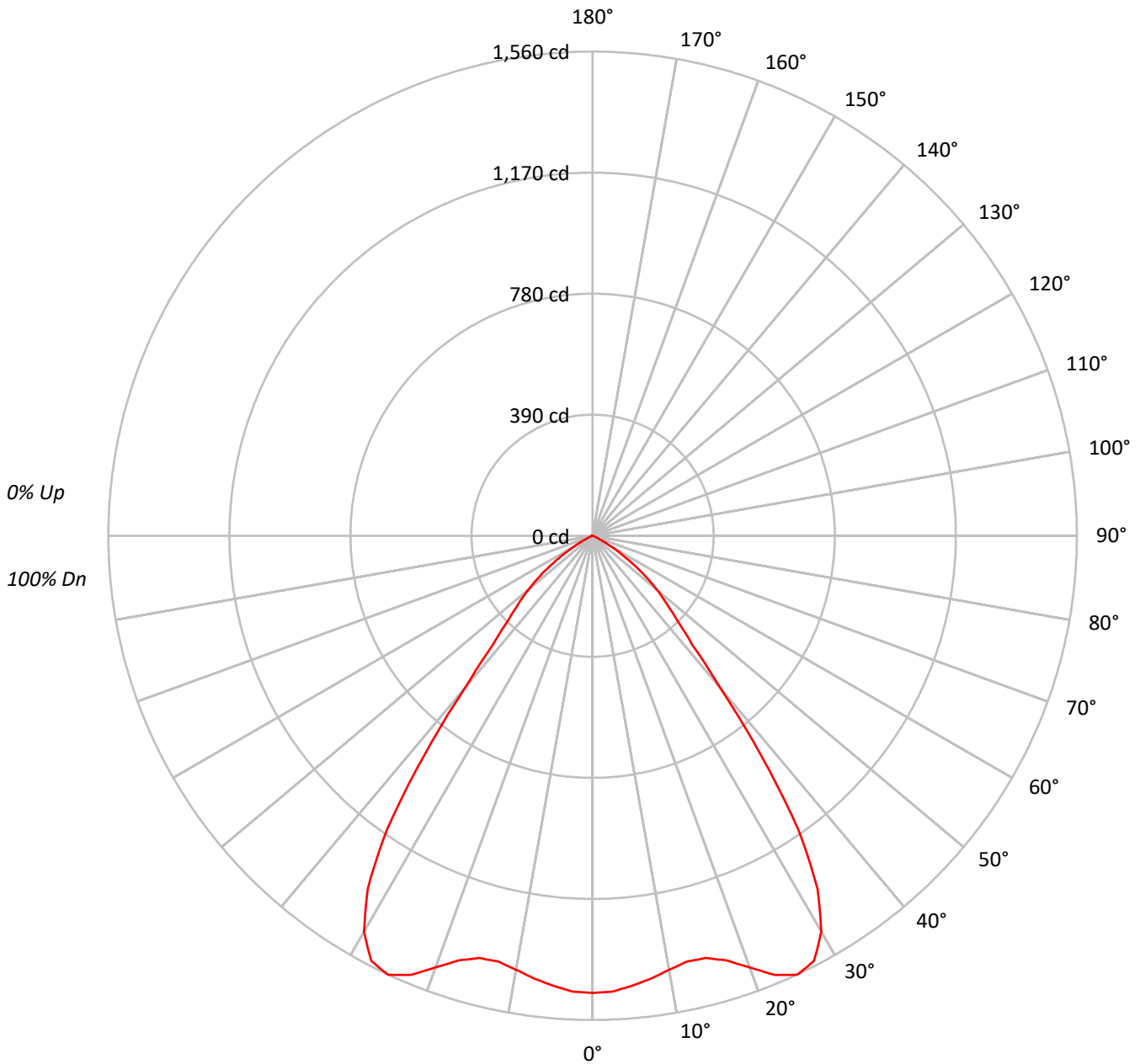
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584023

CATALOG NUMBER: HC820D010-HM80520840-81WDBB

Luminous Intensity Polar Plot





TEST NUMBER: P584023

CATALOG NUMBER: HC820D010-HM80520840-81WDBB

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68			
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47			
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	45	42	50	45	41	40			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	45422
5°	45044
10°	44451
15°	44956
20°	48550
25°	53095
30°	52449
35°	43509
40°	25610
45°	16733
50°	12967
55°	8618
60°	4194
65°	1299
70°	433
75°	381
80°	302
85°	601



TEST NUMBER: P584023

CATALOG NUMBER: HC820D010-HM80520840-81WDBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	5.7
10°-20°	404.6	16.7
20°-30°	707.4	29.2
30°-40°	688.1	28.4
40°-50°	312.9	12.9
50°-60°	145.1	6.0
60°-70°	24.3	1.0
70°-80°	3.0	0.1
80°-90°	1.2	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°	1249.8	51.6
0°-40°	1937.9	79.9
0°-60°	2395.9	98.8
0°-90°	2424.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2424.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1473	
5°	1455	138
15°	1408	405
25°	1560	707
35°	1156	688
45°	384	313
55°	160	145
65°	18	24
75°	3	3
85°	2	1
90°	0	



TEST NUMBER: P584023

CATALOG NUMBER: HC820D010-HM80520840-81WDBB

CANDELA DISTRIBUTION (FULL):

0°	
0°	1473.0
2.5°	1469.8
5°	1455.2
7.5°	1439.0
10°	1419.6
12.5°	1405.0
15°	1408.2
17.5°	1434.1
20°	1479.5
22.5°	1531.3
25°	1560.5
27.5°	1544.3
30°	1473.0
32.5°	1348.4
35°	1155.8
37.5°	890.3
40°	636.2
42.5°	474.2
45°	383.7
47.5°	323.7
50°	270.3
52.5°	215.2
55°	160.3
57.5°	110.0
60°	68.0
62.5°	37.2
65°	17.8
67.5°	8.0
70°	4.8
72.5°	3.2
75°	3.2
77.5°	1.7
80°	1.7
82.5°	1.7
85°	1.7
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)