

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: P583724

Luminaire Tested: **HC810D010-HM80520830-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC810D010-HM80520830-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1189.6 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

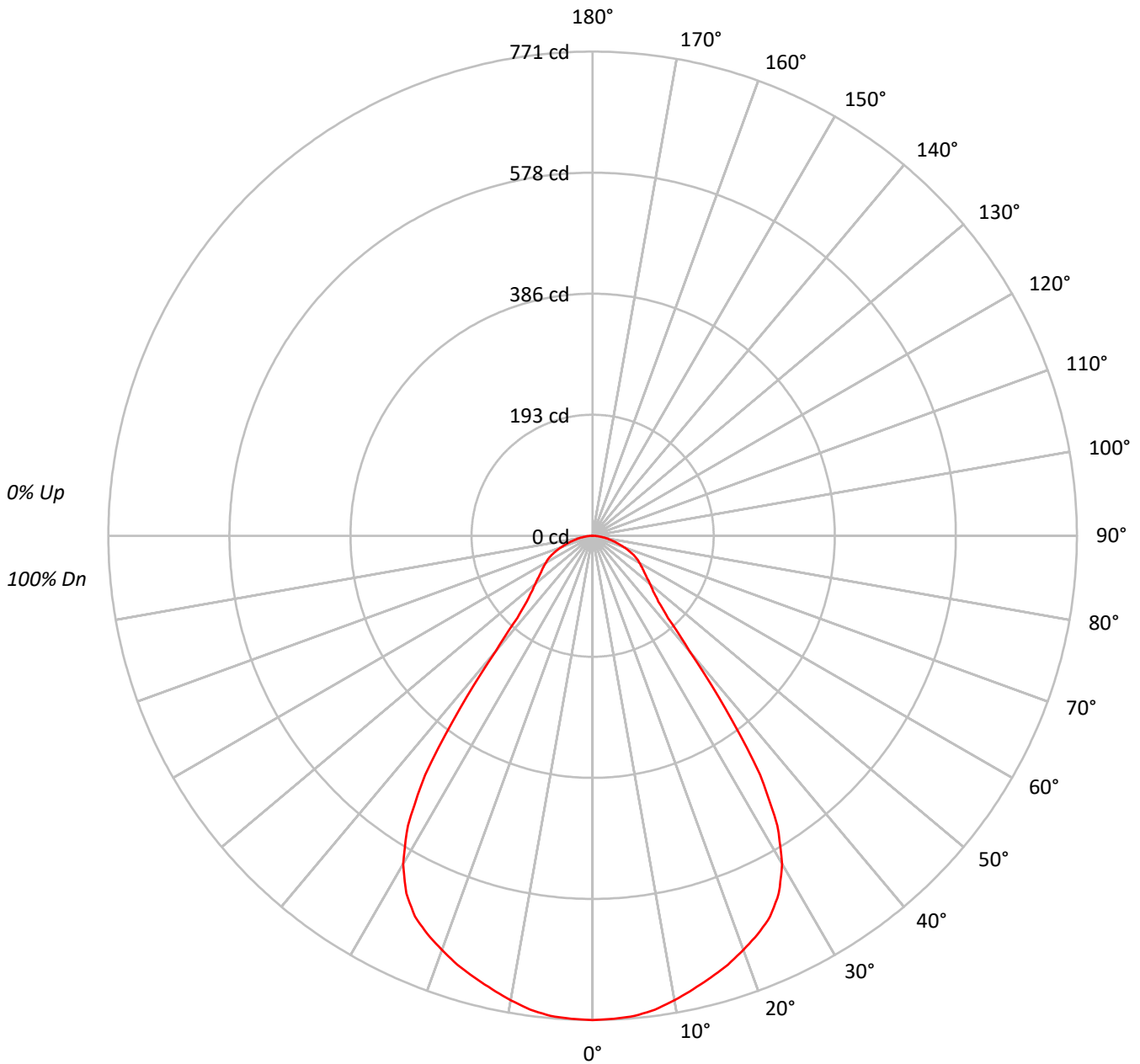
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583724

CATALOG NUMBER: HC810D010-HM80520830-81WDW

Luminous Intensity Polar Plot





TEST NUMBER: P583724

CATALOG NUMBER: HC810D010-HM80520830-81WDW

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	100	100	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89	89	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79	79	79	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70	70	70	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63	63	63	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57	57	57	57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52	52	52	52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48	48	48	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40	40	40	40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	23784
5°	23757
10°	23518
15°	23238
20°	23023
25°	22762
30°	21482
35°	17493
40°	9661
45°	6454
50°	5718
55°	5371
60°	5298
65°	5253
70°	4742
75°	4241
80°	3711
85°	3290



TEST NUMBER: P583724

CATALOG NUMBER: HC810D010-HM80520830-81WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	6.1
10°-20°	205.5	17.3
20°-30°	305.4	25.7
30°-40°	275.0	23.1
40°-50°	121.9	10.3
50°-60°	90.3	7.6
60°-70°	70.2	5.9
70°-80°	38.1	3.2
80°-90°	10.4	0.9
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°	583.7	49.1
0°-40°	858.7	72.2
0°-60°	1070.9	90.0
0°-90°	1189.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1189.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	771	
5°	768	73
15°	728	206
25°	669	305
35°	465	275
45°	148	122
55°	100	90
65°	72	70
75°	36	38
85°	9	10
90°	0	



TEST NUMBER: P583724

CATALOG NUMBER: HC810D010-HM80520830-81WDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	771.3
2.5°	769.8
5°	767.5
7.5°	761.2
10°	751.1
12.5°	739.6
15°	727.9
17.5°	716.3
20°	701.6
22.5°	686.9
25°	669.0
27.5°	642.0
30°	603.3
32.5°	547.5
35°	464.7
37.5°	346.9
40°	240.0
42.5°	177.3
45°	148.0
47.5°	130.9
50°	119.2
52.5°	108.4
55°	99.9
57.5°	92.9
60°	85.9
62.5°	79.8
65°	72.0
67.5°	62.7
70°	52.6
72.5°	44.1
75°	35.6
77.5°	27.9
80°	20.9
82.5°	14.7
85°	9.3
87.5°	3.8
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)