

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: P585281

Luminaire Tested: **HC880D010-HM86080930-81WDBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585281
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: HC880D010-HM86080930-81WDBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5813.1 lumens
Efficiency: N/A
Efficacy: 83.0 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

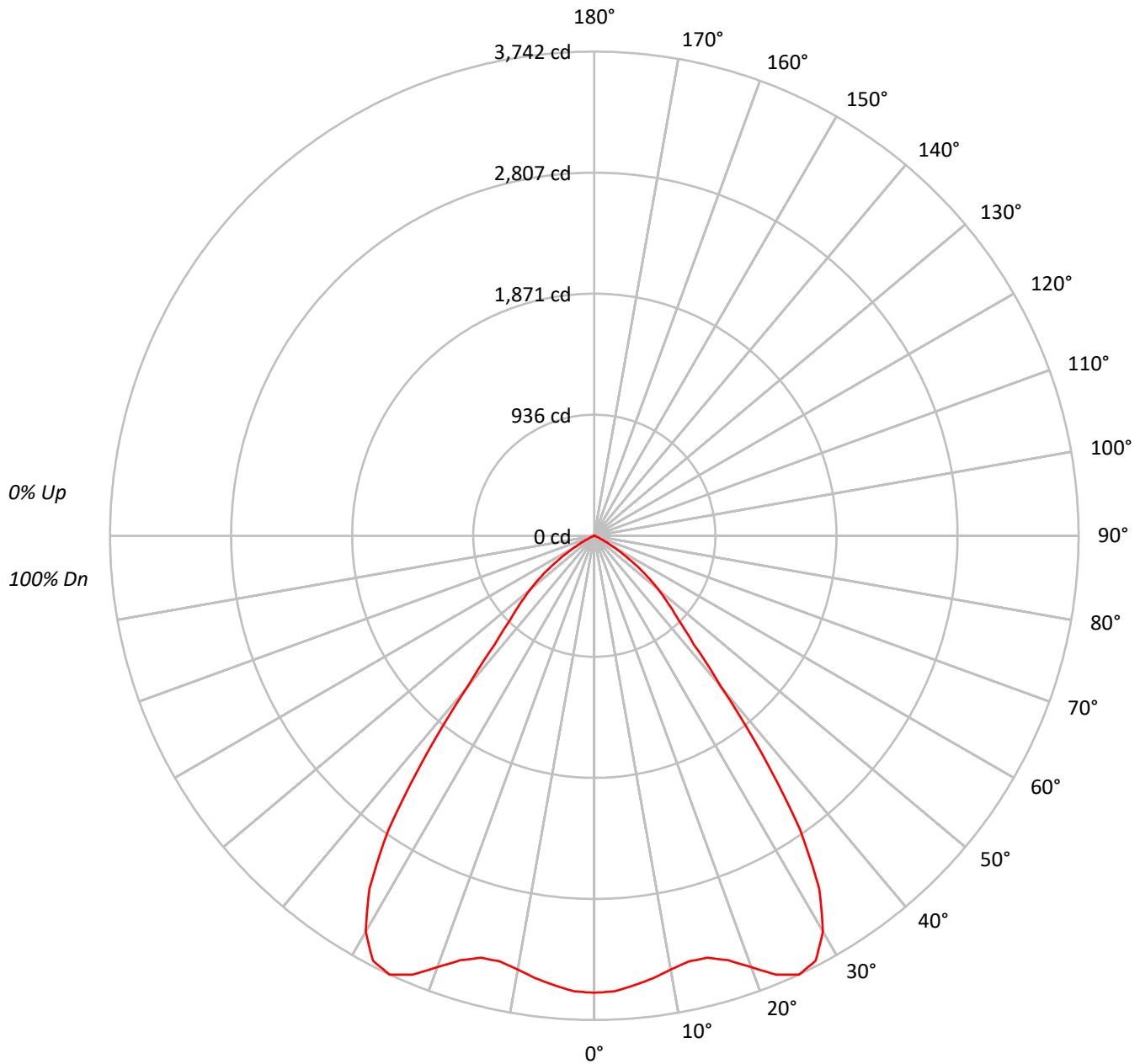
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P585281

CATALOG NUMBER: HC880D010-HM86080930-81WDBB

Luminous Intensity Polar Plot





TEST NUMBER: P585281

CATALOG NUMBER: HC880D010-HM86080930-81WDBB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96
2	106	100	95	92	104	98	94	91	95	92	89		92	89	87		89
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83
4	93	84	78	73	91	83	77	72	81	76	71		79	74	71		77
5	87	77	71	66	85	76	70	65	74	69	65		73	68	64		71
6	82	71	64	59	80	70	64	59	69	63	59		67	62	58		66
7	77	66	59	54	75	65	59	54	64	58	54		63	57	53		61
8	72	61	54	49	71	61	54	49	59	53	49		58	53	49		57
9	68	57	50	45	67	56	50	45	55	49	45		54	49	45		53
10	64	53	46	42	63	53	46	42	52	46	42		51	45	42		50

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	108914
5°	108011
10°	106586
15°	107801
20°	116412
25°	127308
30°	125763
35°	104323
40°	61403
45°	40116
50°	31096
55°	20661
60°	10053
65°	3116
70°	1055
75°	917
80°	693
85°	1380



TEST NUMBER: P585281

CATALOG NUMBER: HC880D010-HM86080930-81WDBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.5	5.7
10°-20°	970.1	16.7
20°-30°	1696.2	29.2
30°-40°	1649.9	28.4
40°-50°	750.4	12.9
50°-60°	348.0	6.0
60°-70°	58.3	1.0
70°-80°	7.1	0.1
80°-90°	2.7	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°	2996.7	51.6
0°-40°	4646.7	79.9
0°-60°	5745.0	98.8
0°-90°	5813.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5813.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3532	
5°	3489	330
15°	3377	970
25°	3742	1696
35°	2771	1650
45°	920	750
55°	384	348
65°	43	58
75°	8	7
85°	4	3
90°	0	



TEST NUMBER: P585281

CATALOG NUMBER: HC880D010-HM86080930-81WDBB

CANDELA DISTRIBUTION (FULL):

	0°
0°	3532.0
2.5°	3524.3
5°	3489.4
7.5°	3450.5
10°	3404.0
12.5°	3369.0
15°	3376.8
17.5°	3438.8
20°	3547.5
22.5°	3671.8
25°	3741.7
27.5°	3702.8
30°	3532.0
32.5°	3233.1
35°	2771.3
37.5°	2134.7
40°	1525.4
42.5°	1137.3
45°	919.9
47.5°	776.3
50°	648.2
52.5°	516.3
55°	384.3
57.5°	264.0
60°	163.0
62.5°	89.3
65°	42.7
67.5°	19.4
70°	11.7
72.5°	7.7
75°	7.7
77.5°	3.9
80°	3.9
82.5°	3.9
85°	3.9
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)