

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: P585277

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC880D010-HM86080930-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5196.0 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

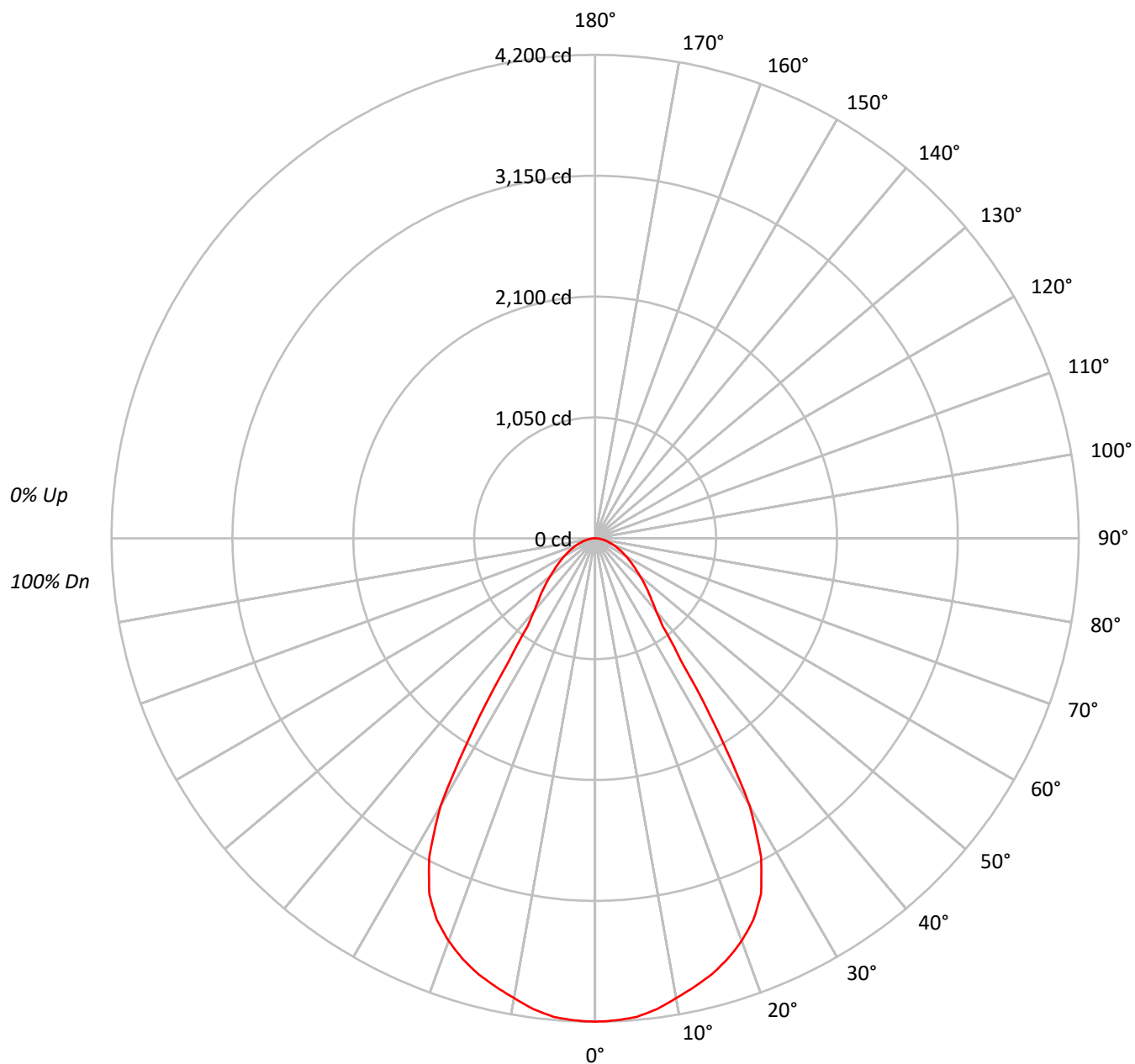
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P585277

CATALOG NUMBER: HC880D010-HM86080930-81NDW

Luminous Intensity Polar Plot





TEST NUMBER: P585277

CATALOG NUMBER: HC880D010-HM86080930-81NDW

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	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95
2	105	99	94	90	102	97	92	88	94	90	87		91	87	85		88
3	98	90	84	79	96	89	83	79	86	81	77		84	80	76		81
4	92	83	76	71	90	82	76	71	80	74	70		77	73	69		75
5	87	77	70	65	85	76	69	64	74	68	64		72	67	63		70
6	82	71	64	59	80	70	64	59	69	63	58		67	62	58		66
7	77	66	59	54	76	66	59	54	64	58	54		63	58	54		62
8	73	62	55	50	71	61	55	50	60	54	50		59	54	50		58
9	69	58	51	47	68	57	51	47	56	51	46		55	50	46		55
10	65	55	48	44	64	54	48	44	53	47	43		52	47	43		52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	129513
5°	129168
10°	127014
15°	125162
20°	122158
25°	115958
30°	95647
35°	49242
40°	32972
45°	28267
50°	24394
55°	21284
60°	18909
65°	16994
70°	15390
75°	13868
80°	12413
85°	12383



TEST NUMBER: P585277

CATALOG NUMBER: HC880D010-HM86080930-81NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.5	7.6
10°-20°	1103.0	21.2
20°-30°	1528.3	29.4
30°-40°	918.0	17.7
40°-50°	502.5	9.7
50°-60°	357.0	6.9
60°-70°	231.8	4.5
70°-80°	123.8	2.4
80°-90°	37.0	0.7
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°	3025.9	58.2
0°-40°	3943.9	75.9
0°-60°	4803.4	92.4
0°-90°	5196.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5196.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4200	
5°	4173	395
15°	3921	1103
25°	3408	1528
35°	1308	918
45°	648	503
55°	396	357
65°	233	232
75°	116	124
85°	35	37
90°	0	



TEST NUMBER: P585277

CATALOG NUMBER: HC880D010-HM86080930-81NDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	4200.0
2.5°	4192.3
5°	4172.9
7.5°	4126.3
10°	4056.4
12.5°	3990.4
15°	3920.6
17.5°	3831.3
20°	3722.6
22.5°	3590.7
25°	3408.1
27.5°	3120.9
30°	2686.2
32.5°	1968.0
35°	1308.1
37.5°	966.5
40°	819.1
42.5°	725.9
45°	648.2
47.5°	574.5
50°	508.5
52.5°	446.4
55°	395.9
57.5°	349.3
60°	306.6
62.5°	267.9
65°	232.9
67.5°	198.0
70°	170.7
72.5°	139.7
75°	116.4
77.5°	93.2
80°	69.9
82.5°	50.4
85°	35.0
87.5°	15.6
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)