

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: P585268

Luminaire Tested: **HC880D010-HM86080927-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585268
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: HC880D010-HM86080927-81WDWB
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: 5974.2 lumens
Efficiency: N/A
Efficacy: 85.3 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

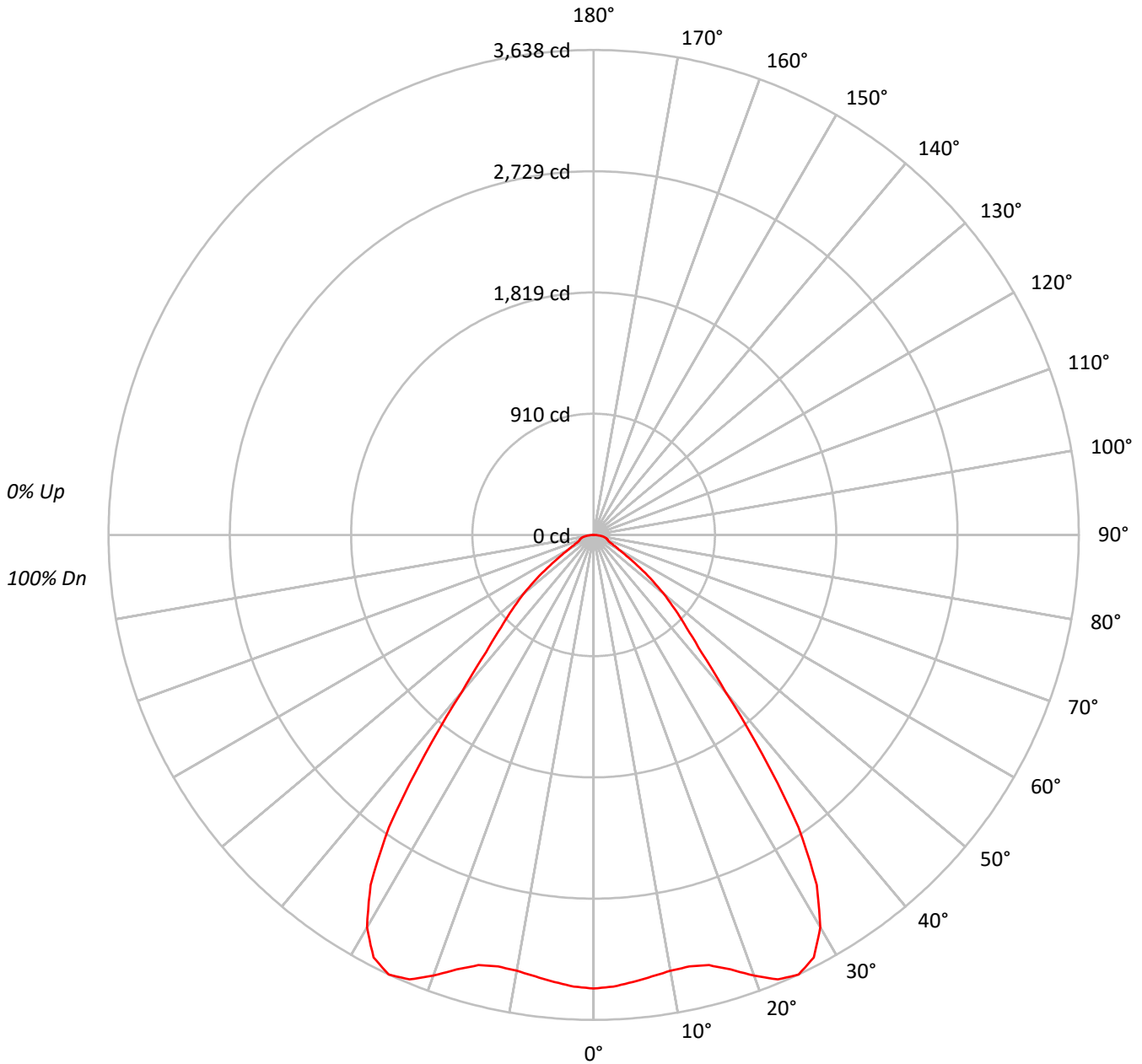
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P585268

CATALOG NUMBER: HC880D010-HM86080927-81WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P585268

CATALOG NUMBER: HC880D010-HM86080927-81WDWB

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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			65
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	104924
5°	104201
10°	103928
15°	106655
20°	115464
25°	123790
30°	121024
35°	100773
40°	61911
45°	42872
50°	32717
55°	21451
60°	13420
65°	10055
70°	10143
75°	11676
80°	12874
85°	11569



TEST NUMBER: P585268

CATALOG NUMBER: HC880D010-HM86080927-81WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.9	5.4
10°-20°	959.0	16.1
20°-30°	1651.0	27.6
30°-40°	1599.5	26.8
40°-50°	787.9	13.2
50°-60°	371.8	6.2
60°-70°	146.5	2.5
70°-80°	101.1	1.7
80°-90°	37.5	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°	2929.9	49.0
0°-40°	4529.5	75.8
0°-60°	5689.1	95.2
0°-90°	5974.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5974.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3403	
5°	3366	320
15°	3341	959
25°	3638	1651
35°	2677	1600
45°	983	788
55°	399	372
65°	138	147
75°	98	101
85°	33	38
90°	0	



TEST NUMBER: P585268

CATALOG NUMBER: HC880D010-HM86080927-81WDWB

CANDELA DISTRIBUTION (FULL):

0°	
0°	3402.6
2.5°	3391.6
5°	3366.3
7.5°	3340.9
10°	3319.1
12.5°	3315.4
15°	3340.9
17.5°	3417.1
20°	3518.6
22.5°	3609.3
25°	3638.3
27.5°	3573.1
30°	3398.9
32.5°	3112.3
35°	2677.0
37.5°	2078.5
40°	1538.0
42.5°	1193.4
45°	983.1
47.5°	827.1
50°	682.0
52.5°	536.8
55°	399.0
57.5°	290.2
60°	217.6
62.5°	170.5
65°	137.8
67.5°	119.7
70°	112.5
72.5°	105.2
75°	98.0
77.5°	87.0
80°	72.5
82.5°	54.5
85°	32.7
87.5°	14.5
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)