

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: P584740

Luminaire Tested: **HC845D010-HM82555930-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584740
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: HC845D010-HM82555930-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4856.8 lumens
Efficiency: N/A
Efficacy: 110.4 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

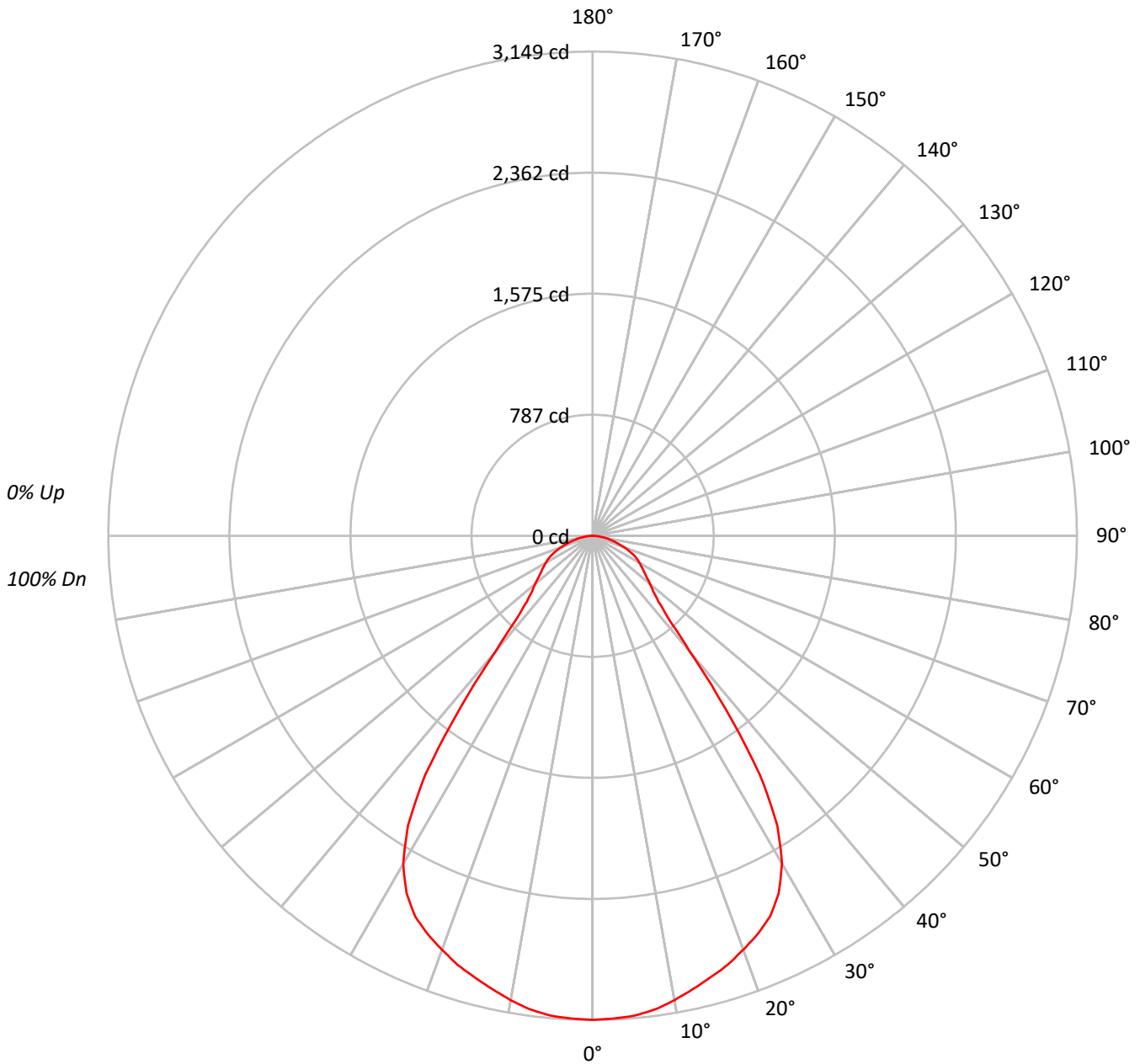
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584740

CATALOG NUMBER: HC845D010-HM82555930-81WDW

Luminous Intensity Polar Plot





TEST NUMBER: P584740

CATALOG NUMBER: HC845D010-HM82555930-81WDW

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	97097
5°	96979
10°	96021
15°	94872
20°	93990
25°	92933
30°	87689
35°	71407
40°	39449
45°	26336
50°	23358
55°	21929
60°	21647
65°	21459
70°	19384
75°	17335
80°	15165
85°	13409



TEST NUMBER: P584740

CATALOG NUMBER: HC845D010-HM82555930-81WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.9	6.1
10°-20°	839.1	17.3
20°-30°	1246.8	25.7
30°-40°	1122.8	23.1
40°-50°	497.8	10.2
50°-60°	368.7	7.6
60°-70°	286.7	5.9
70°-80°	155.5	3.2
80°-90°	42.6	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°	2382.8	49.1
0°-40°	3505.7	72.2
0°-60°	4372.1	90.0
0°-90°	4856.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4856.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3149	
5°	3133	297
15°	2972	839
25°	2731	1247
35°	1897	1123
45°	604	498
55°	408	369
65°	294	287
75°	146	155
85°	38	43
90°	0	



TEST NUMBER: P584740

CATALOG NUMBER: HC845D010-HM82555930-81WDW

CANDELA DISTRIBUTION (FULL):

0°	
0°	3148.8
2.5°	3142.5
5°	3133.0
7.5°	3107.7
10°	3066.6
12.5°	3019.2
15°	2971.8
17.5°	2924.3
20°	2864.2
22.5°	2804.2
25°	2731.4
27.5°	2620.8
30°	2462.7
32.5°	2235.2
35°	1896.9
37.5°	1416.3
40°	980.0
42.5°	724.0
45°	603.9
47.5°	534.3
50°	486.9
52.5°	442.6
55°	407.9
57.5°	379.3
60°	351.0
62.5°	325.6
65°	294.1
67.5°	256.1
70°	215.0
72.5°	180.2
75°	145.5
77.5°	113.8
80°	85.4
82.5°	60.1
85°	37.9
87.5°	15.8
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)