

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: P580500

Luminaire Tested: **HC435D010-HM43040930-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC435D010-HM43040930-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2848.6 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

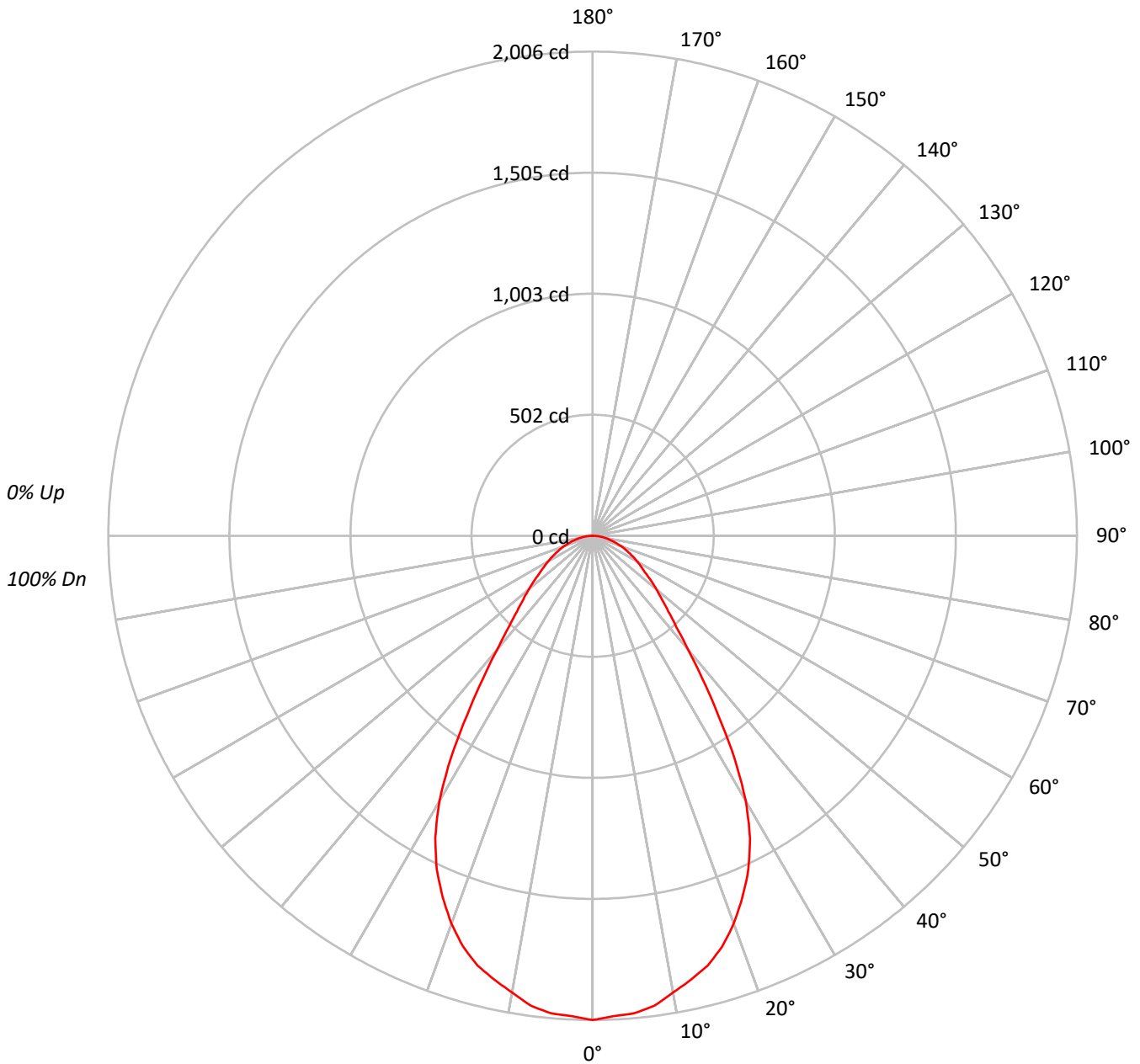
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580500

CATALOG NUMBER: HC435D010-HM43040930-41PSMDW

Luminous Intensity Polar Plot





TEST NUMBER: P580500

CATALOG NUMBER: HC435D010-HM43040930-41PSMDW

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			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	247431
5°	245888
10°	240652
15°	235332
20°	224444
25°	207765
30°	180726
35°	136468
40°	98912
45°	77293
50°	66088
55°	57159
60°	52644
65°	48186
70°	45044
75°	41319
80°	38641
85°	37079



TEST NUMBER: P580500

CATALOG NUMBER: HC435D010-HM43040930-41PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.6	6.6
10°-20°	516.2	18.1
20°-30°	694.2	24.4
30°-40°	570.8	20.0
40°-50°	350.5	12.3
50°-60°	242.6	8.5
60°-70°	165.3	5.8
70°-80°	92.2	3.2
80°-90°	29.3	1.0
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°	1397.9	49.1
0°-40°	1968.7	69.1
0°-60°	2561.8	89.9
0°-90°	2848.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2848.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2006	
5°	1986	188
15°	1843	516
25°	1527	694
35°	906	571
45°	443	351
55°	266	243
65°	165	165
75°	87	92
85°	26	29
90°	0	



TEST NUMBER: P580500

CATALOG NUMBER: HC435D010-HM43040930-41PSMDW

CANDELA DISTRIBUTION (FULL):

0°	
0°	2006.0
2.5°	1992.0
5°	1985.9
7.5°	1963.7
10°	1921.4
12.5°	1883.1
15°	1842.9
17.5°	1784.5
20°	1709.9
22.5°	1621.4
25°	1526.6
27.5°	1411.9
30°	1268.9
32.5°	1093.7
35°	906.3
37.5°	745.2
40°	614.3
42.5°	513.6
45°	443.1
47.5°	388.7
50°	344.4
52.5°	304.2
55°	265.8
57.5°	237.6
60°	213.4
62.5°	189.3
65°	165.1
67.5°	145.0
70°	124.9
72.5°	104.8
75°	86.7
77.5°	68.5
80°	54.4
82.5°	40.2
85°	26.2
87.5°	14.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)