

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: P584596

Luminaire Tested: **HC840D010-HM82555930-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC840D010-HM82555930-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4021.8 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

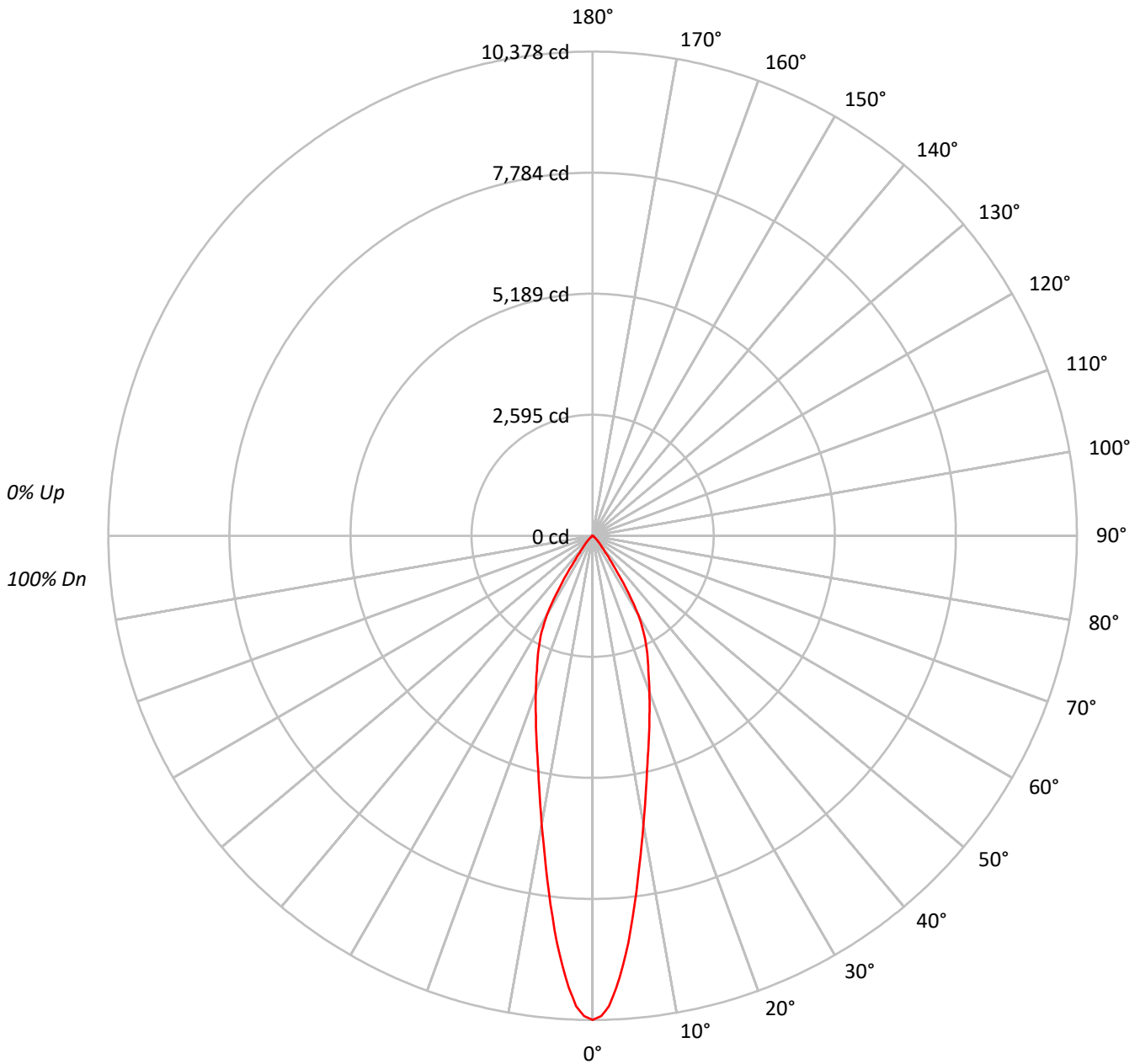
Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	100	100
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95	95	95	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89	89	89	89
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84	84	84	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80	80	80	80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75	75	75	75
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72	72	72	72
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68	68	68	68
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65	65	65	65
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62	62	62	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59	59	59	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	320019
5°	271124
10°	196715
15°	147722
20°	116557
25°	94019
30°	69672
35°	28226
40°	11903
45°	6384
50°	2864
55°	1446
60°	925
65°	649
70°	532
75°	357
80°	533
85°	1061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	752.0	18.7
10°-20°	1299.7	32.3
20°-30°	1256.6	31.2
30°-40°	551.9	13.7
40°-50°	119.3	3.0
50°-60°	26.8	0.7
60°-70°	9.2	0.2
70°-80°	3.6	0.1
80°-90°	2.9	0.1
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°	3308.3	82.3
0°-40°	3860.1	96.0
0°-60°	4006.2	99.6
0°-90°	4021.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4021.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10378	
5°	8759	752
15°	4627	1300
25°	2763	1257
35°	750	552
45°	146	119
55°	27	27
65°	9	9
75°	3	4
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10378.0
1°	10300.3
2°	10088.2
3°	9705.8
4°	9248.7
5°	8758.9
6°	8224.1
7°	7686.3
8°	7181.5
9°	6712.6
10°	6282.4
11°	5876.1
12°	5511.6
13°	5180.1
14°	4887.2
15°	4627.3
17.5°	4044.8
20°	3551.9
22.5°	3118.8
25°	2763.3
27.5°	2401.8
30°	1956.7
32.5°	1329.3
35°	749.8
37.5°	442.1
40°	295.7
42.5°	209.1
45°	146.4
47.5°	95.6
50°	59.7
52.5°	35.8
55°	26.9
57.5°	20.9
60°	15.0
62.5°	11.9
65°	8.9
67.5°	5.9
70°	5.9
72.5°	3.0
75°	3.0
77.5°	3.0
80°	3.0
82.5°	3.0



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°		3.0
87.5°		3.0



(END OF REPORT)