

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: P584536

Luminaire Tested: **HC840D010-HM82555830-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584536
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: HC840D010-HM82555830-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4640.3 lumens
Efficiency: N/A
Efficacy: 113.2 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

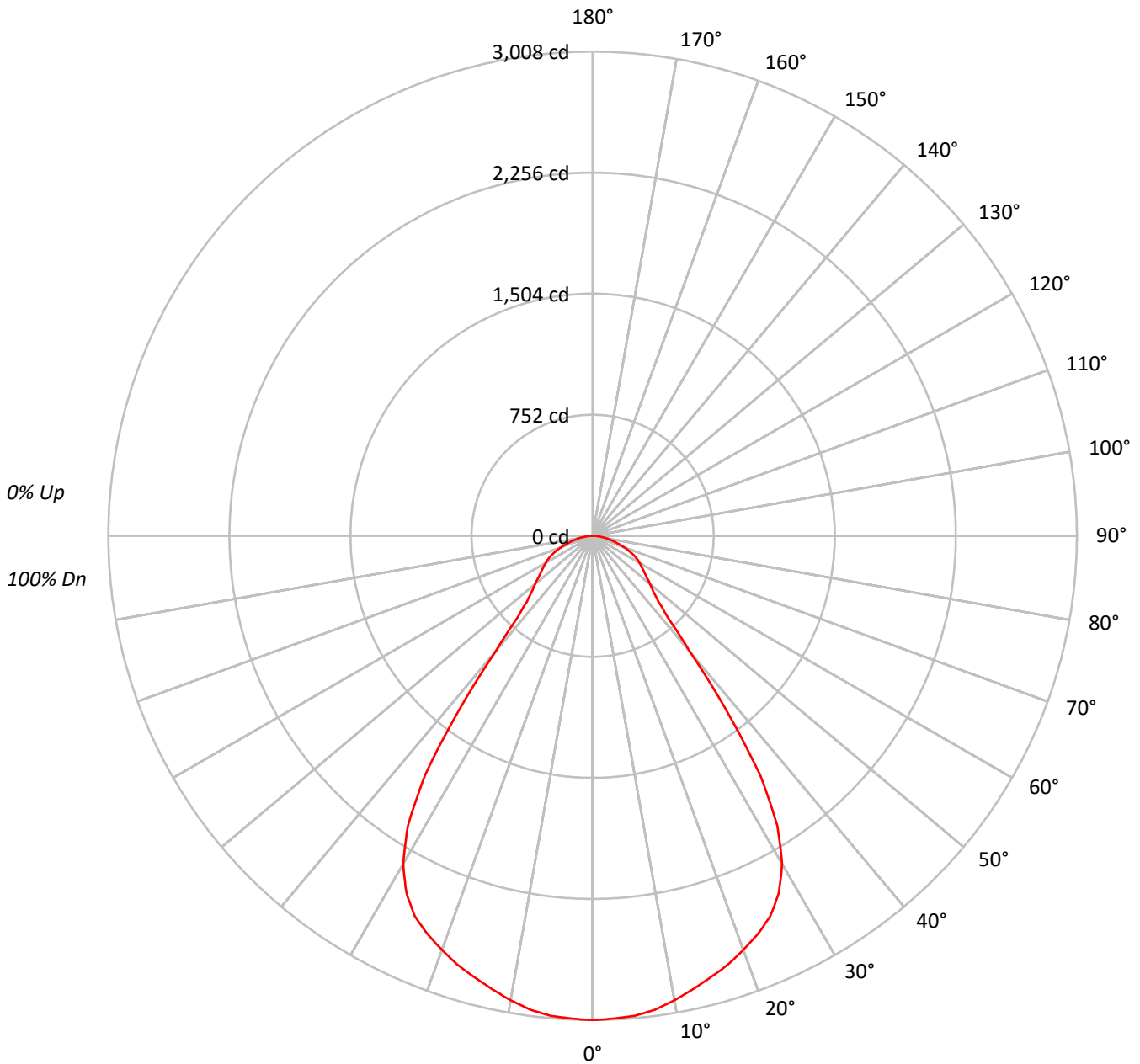
Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	92768
5°	92655
10°	91741
15°	90639
20°	89799
25°	88793
30°	83783
35°	68223
40°	37694
45°	25158
50°	22317
55°	20945
60°	20673
65°	20503
70°	18519
75°	16561
80°	14473
85°	12843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.7	6.1
10°-20°	801.7	17.3
20°-30°	1191.2	25.7
30°-40°	1072.8	23.1
40°-50°	475.6	10.2
50°-60°	352.2	7.6
60°-70°	273.9	5.9
70°-80°	148.5	3.2
80°-90°	40.7	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°	2276.6	49.1
0°-40°	3349.4	72.2
0°-60°	4177.2	90.0
0°-90°	4640.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4640.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3008	
5°	2993	284
15°	2839	802
25°	2610	1191
35°	1812	1073
45°	577	476
55°	390	352
65°	281	274
75°	139	149
85°	36	41
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3008.4
2.5°	3002.4
5°	2993.3
7.5°	2969.2
10°	2929.9
12.5°	2884.6
15°	2839.2
17.5°	2794.0
20°	2736.5
22.5°	2679.2
25°	2609.7
27.5°	2504.0
30°	2353.0
32.5°	2135.5
35°	1812.3
37.5°	1353.1
40°	936.4
42.5°	691.7
45°	576.9
47.5°	510.5
50°	465.2
52.5°	422.9
55°	389.6
57.5°	362.5
60°	335.2
62.5°	311.1
65°	281.0
67.5°	244.7
70°	205.4
72.5°	172.2
75°	139.0
77.5°	108.8
80°	81.5
82.5°	57.4
85°	36.3
87.5°	15.1
90°	0.0



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— 0°-180°







(END OF REPORT)