

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: P584631

Luminaire Tested: **HC840D010-HM82555940-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584631
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC840D010-HM82555940-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4420.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

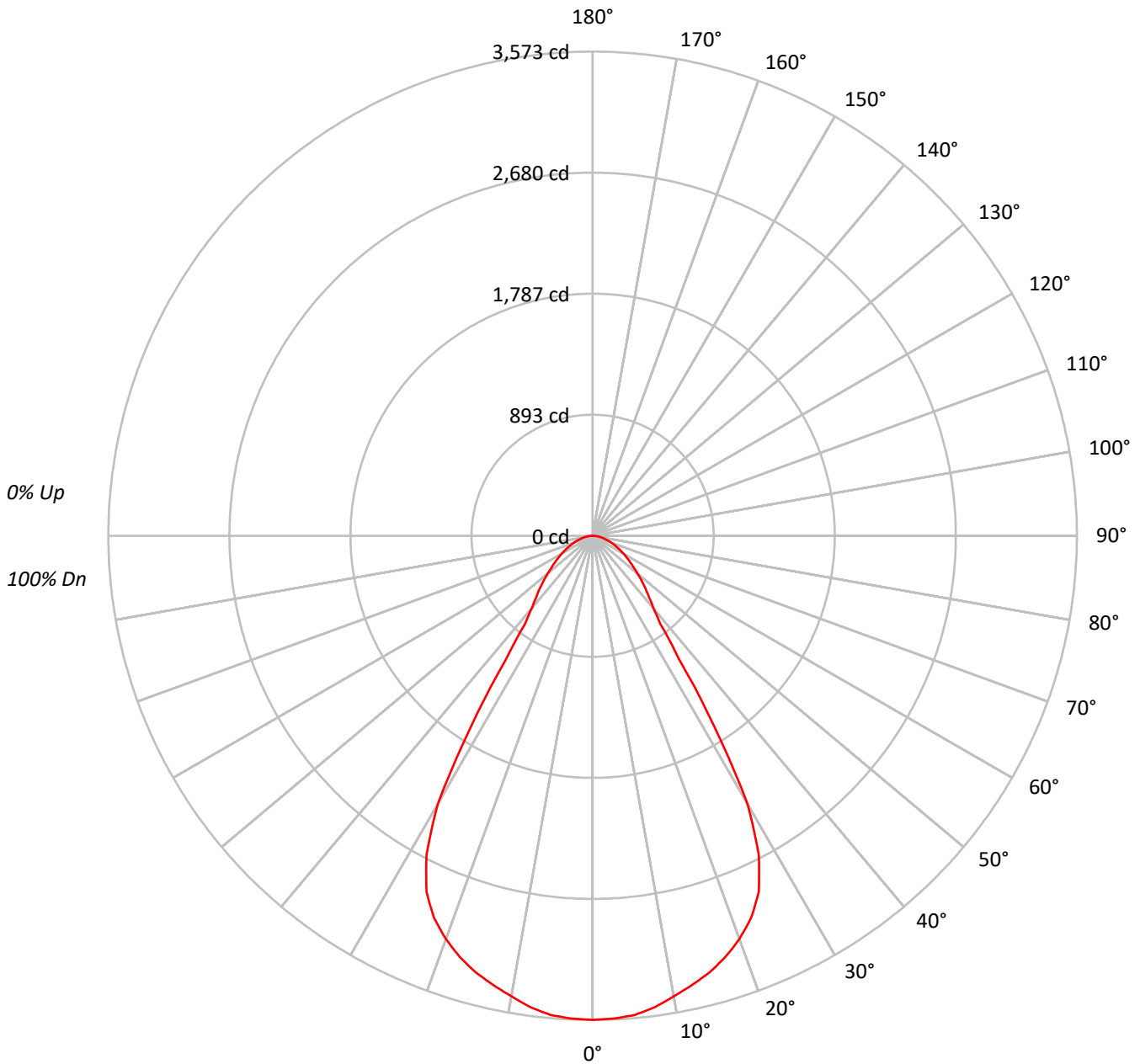
Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	110169
5°	109878
10°	108045
15°	106470
20°	103913
25°	98643
30°	81361
35°	41890
40°	28045
45°	24046
50°	20753
55°	18107
60°	16084
65°	14454
70°	13100
75°	11795
80°	10548
85°	10543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.6	7.6
10°-20°	938.3	21.2
20°-30°	1300.1	29.4
30°-40°	780.9	17.7
40°-50°	427.5	9.7
50°-60°	303.7	6.9
60°-70°	197.2	4.5
70°-80°	105.3	2.4
80°-90°	31.5	0.7
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°	2574.0	58.2
0°-40°	3354.9	75.9
0°-60°	4086.0	92.4
0°-90°	4420.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4420.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3573	
5°	3550	336
15°	3335	938
25°	2899	1300
35°	1113	781
45°	551	427
55°	337	304
65°	198	197
75°	99	105
85°	30	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3572.7
2.5°	3566.2
5°	3549.7
7.5°	3510.0
10°	3450.6
12.5°	3394.5
15°	3335.1
17.5°	3259.1
20°	3166.6
22.5°	3054.4
25°	2899.2
27.5°	2654.8
30°	2285.0
32.5°	1674.1
35°	1112.8
37.5°	822.2
40°	696.7
42.5°	617.5
45°	551.4
47.5°	488.7
50°	432.6
52.5°	379.7
55°	336.8
57.5°	297.1
60°	260.8
62.5°	227.9
65°	198.1
67.5°	168.4
70°	145.3
72.5°	118.9
75°	99.0
77.5°	79.3
80°	59.4
82.5°	43.0
85°	29.8
87.5°	13.2
90°	0.0



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— 0°-180°







(END OF REPORT)