

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: P584639

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC840D010-HM82555940-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5436.7 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

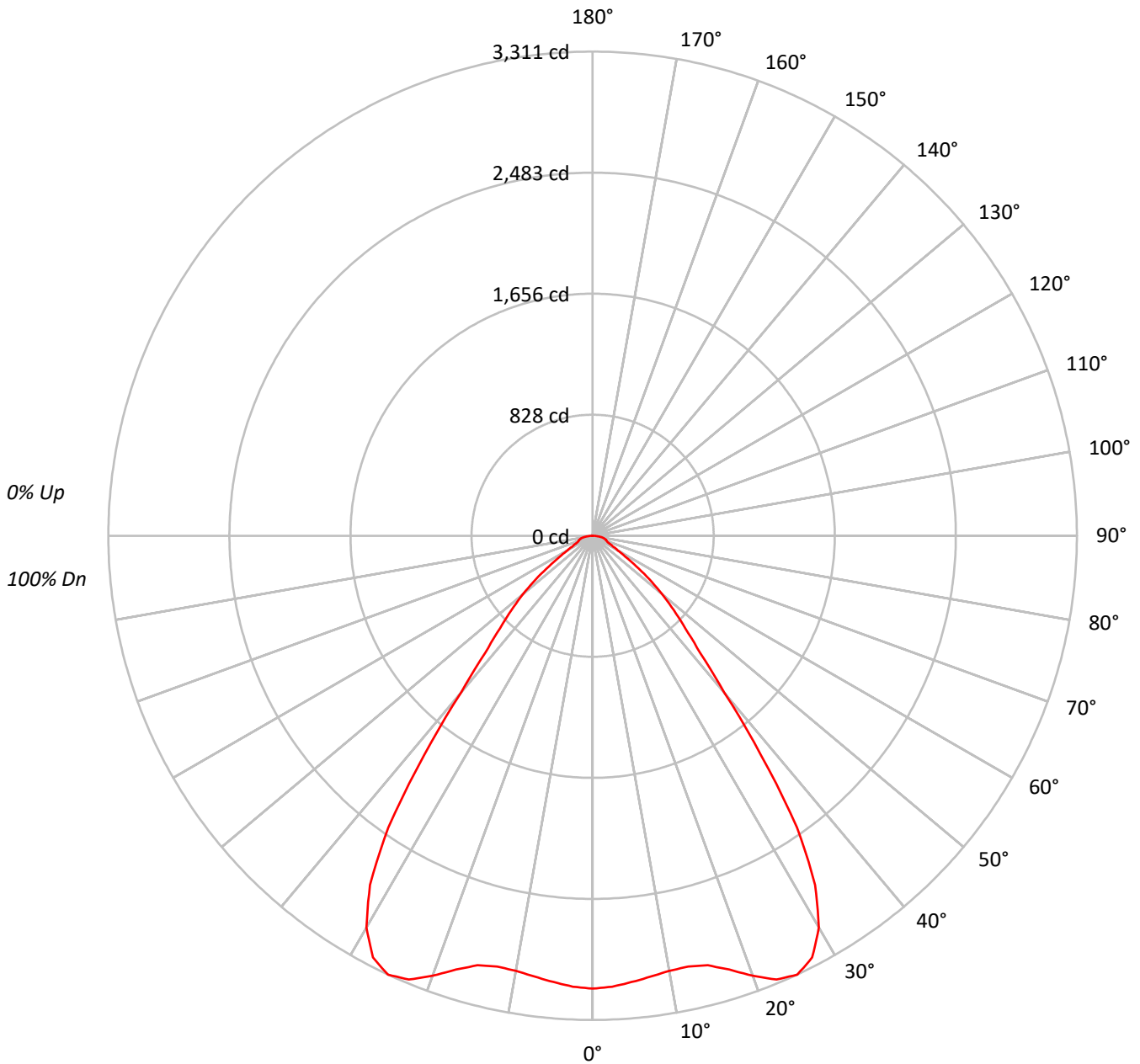
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90																			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81																			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73																			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65																			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59																			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54																			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49																			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45																			
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41																			
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	95482
5°	94825
10°	94578
15°	97059
20°	105078
25°	112650
30°	110132
35°	91709
40°	56343
45°	39013
50°	29772
55°	19521
60°	12211
65°	9150
70°	9223
75°	10616
80°	11720
85°	10543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.1	5.4
10°-20°	872.8	16.1
20°-30°	1502.5	27.6
30°-40°	1455.6	26.8
40°-50°	717.0	13.2
50°-60°	338.3	6.2
60°-70°	133.3	2.5
70°-80°	92.0	1.7
80°-90°	34.1	0.6
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°	2666.3	49.0
0°-40°	4121.9	75.8
0°-60°	5177.3	95.2
0°-90°	5436.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5436.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3096	
5°	3063	291
15°	3040	873
25°	3311	1502
35°	2436	1456
45°	895	717
55°	363	338
65°	125	133
75°	89	92
85°	30	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3096.4
2.5°	3086.5
5°	3063.4
7.5°	3040.3
10°	3020.5
12.5°	3017.1
15°	3040.3
17.5°	3109.6
20°	3202.1
22.5°	3284.5
25°	3310.9
27.5°	3251.6
30°	3093.0
32.5°	2832.3
35°	2436.2
37.5°	1891.5
40°	1399.7
42.5°	1086.0
45°	894.6
47.5°	752.7
50°	620.6
52.5°	488.6
55°	363.1
57.5°	264.1
60°	198.0
62.5°	155.2
65°	125.4
67.5°	108.9
70°	102.3
72.5°	95.7
75°	89.1
77.5°	79.3
80°	66.0
82.5°	49.5
85°	29.8
87.5°	13.2
90°	0.0



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— 0°-180°







(END OF REPORT)