

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: P583810

Luminaire Tested: **HC810D010-HM80520935-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583810
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: HC810D010-HM80520935-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1218.0 lumens
Efficiency: N/A
Efficacy: 123.0 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

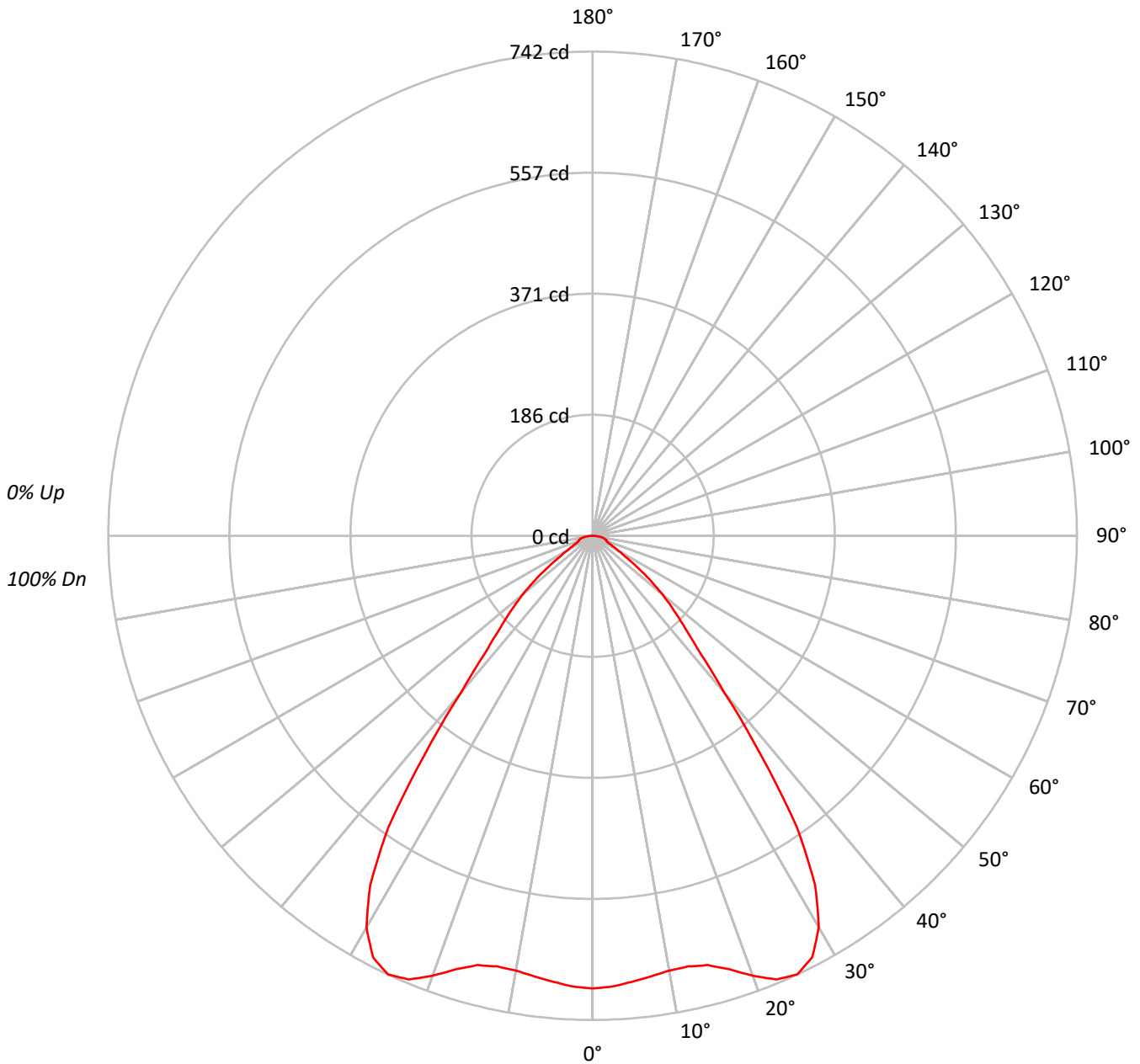
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	21391
5°	21241
10°	21186
15°	21744
20°	23542
25°	25239
30°	24675
35°	20546
40°	12624
45°	8739
50°	6673
55°	4376
60°	2738
65°	2050
70°	2074
75°	2383
80°	2628
85°	2335



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	5.4
10°-20°	195.5	16.1
20°-30°	336.6	27.6
30°-40°	326.1	26.8
40°-50°	160.6	13.2
50°-60°	75.8	6.2
60°-70°	29.9	2.5
70°-80°	20.6	1.7
80°-90°	7.6	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°	597.3	49.0
0°-40°	923.4	75.8
0°-60°	1159.9	95.2
0°-90°	1218.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1218.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	694	
5°	686	65
15°	681	196
25°	742	337
35°	546	326
45°	200	161
55°	81	76
65°	28	30
75°	20	21
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	693.7
2.5°	691.5
5°	686.2
7.5°	681.1
10°	676.6
12.5°	675.9
15°	681.1
17.5°	696.7
20°	717.4
22.5°	735.9
25°	741.8
27.5°	728.4
30°	693.0
32.5°	634.5
35°	545.8
37.5°	423.7
40°	313.6
42.5°	243.3
45°	200.4
47.5°	168.6
50°	139.1
52.5°	109.5
55°	81.4
57.5°	59.1
60°	44.4
62.5°	34.7
65°	28.1
67.5°	24.4
70°	23.0
72.5°	21.4
75°	20.0
77.5°	17.8
80°	14.8
82.5°	11.1
85°	6.6
87.5°	3.0
90°	0.0



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— 0°-180°







(END OF REPORT)