

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: P583663

Luminaire Tested: **HC807D010-HM80520935-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC807D010-HM80520935-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 880.2 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

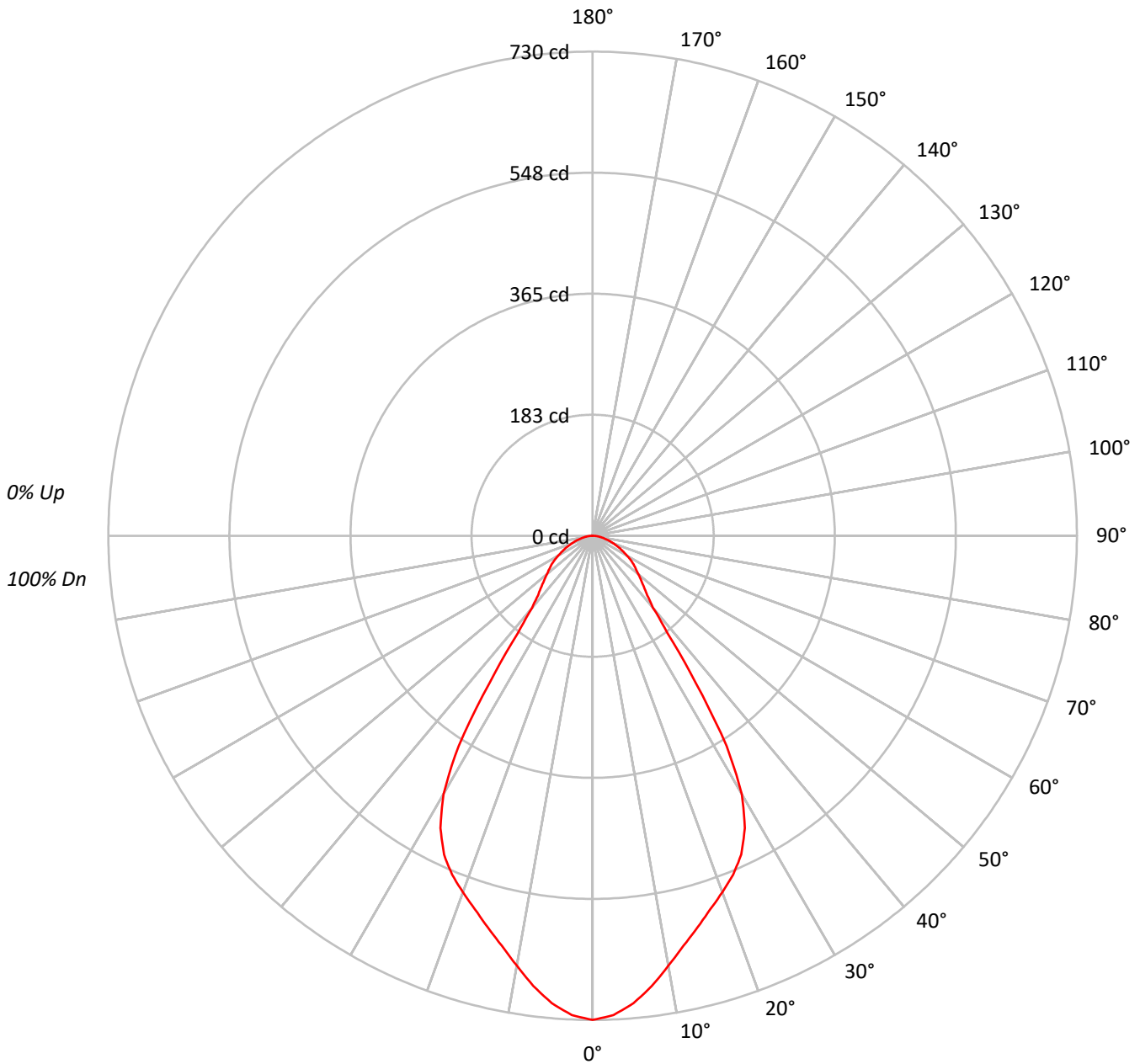
Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65	65	65	65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59	59	59	59
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54	54	54	54
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50	50	50	50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46	46	46	46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43	43	43	43
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40	40	40	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	22507
5°	21894
10°	20603
15°	19506
20°	18764
25°	18036
30°	16019
35°	10202
40°	5696
45°	4766
50°	4303
55°	4059
60°	3700
65°	3342
70°	2948
75°	2621
80°	2309
85°	2123



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	7.5
10°-20°	172.3	19.6
20°-30°	240.4	27.3
30°-40°	173.0	19.7
40°-50°	85.7	9.7
50°-60°	67.1	7.6
60°-70°	45.4	5.2
70°-80°	23.6	2.7
80°-90°	6.8	0.8
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°	478.6	54.4
0°-40°	651.6	74.0
0°-60°	804.4	91.4
0°-90°	880.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	880.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	730	
5°	707	66
15°	611	172
25°	530	240
35°	271	173
45°	109	86
55°	76	67
65°	46	45
75°	22	24
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	729.9
2.5°	723.3
5°	707.3
7.5°	684.7
10°	658.0
12.5°	633.0
15°	611.0
17.5°	590.2
20°	571.8
22.5°	553.3
25°	530.1
27.5°	496.9
30°	449.9
32.5°	376.2
35°	271.0
37.5°	184.9
40°	141.5
42.5°	121.9
45°	109.3
47.5°	98.7
50°	89.7
52.5°	82.0
55°	75.5
57.5°	67.8
60°	60.0
62.5°	52.3
65°	45.8
67.5°	39.2
70°	32.7
72.5°	27.4
75°	22.0
77.5°	17.2
80°	13.0
82.5°	9.6
85°	6.0
87.5°	3.0
90°	0.0



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— 0°-180°







(END OF REPORT)