

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: P583632

Luminaire Tested: **HC807D010-HM80520927-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583632
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: HC807D010-HM80520927-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 680.4 lumens
Efficiency: N/A
Efficacy: 85.1 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

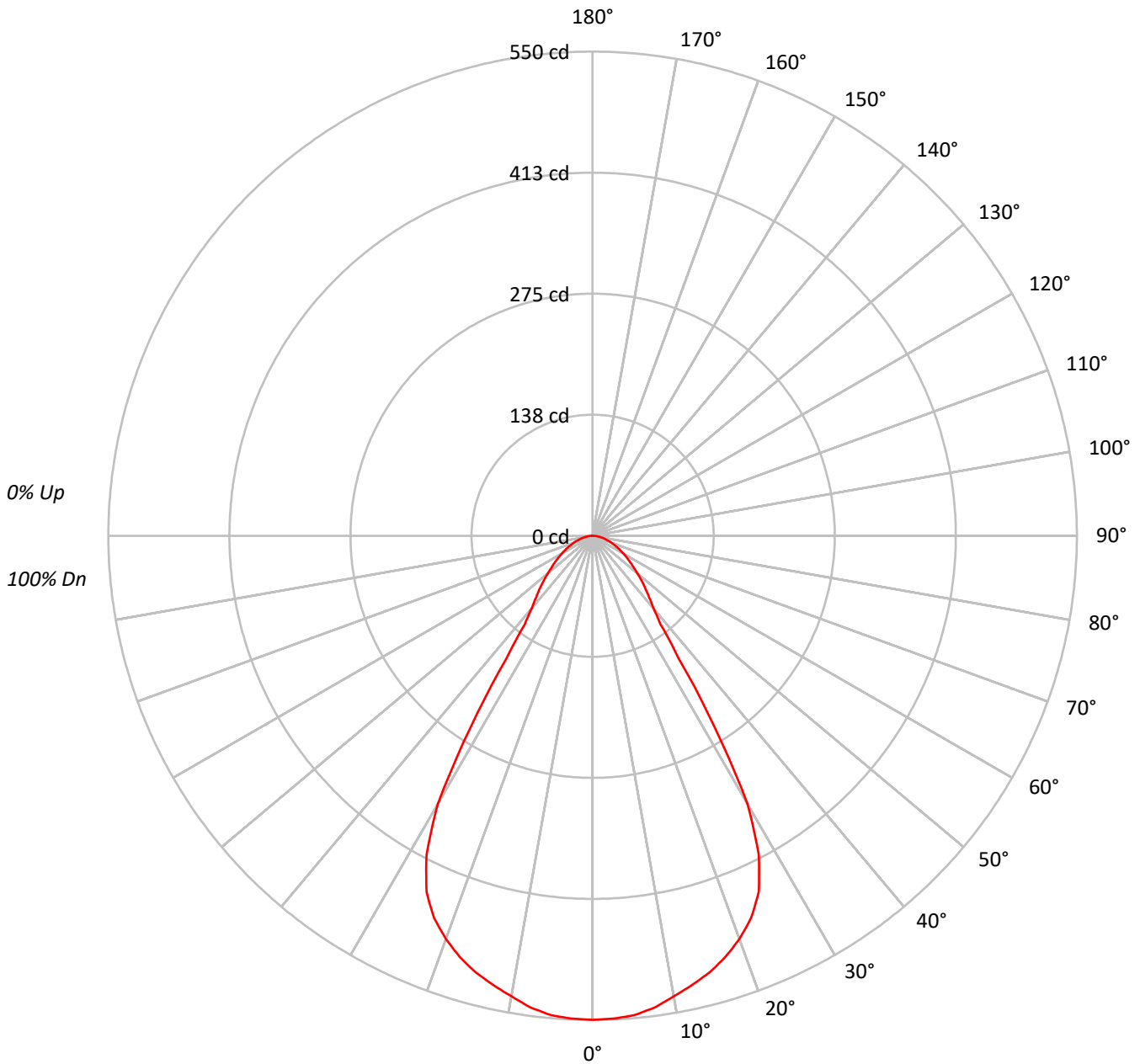
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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°	16957
5°	16916
10°	16633
15°	16390
20°	15994
25°	15185
30°	12526
35°	6445
40°	4319
45°	3698
50°	3195
55°	2790
60°	2479
65°	2225
70°	2011
75°	1823
80°	1634
85°	1592



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.7	7.6
10°-20°	144.4	21.2
20°-30°	200.1	29.4
30°-40°	120.2	17.7
40°-50°	65.8	9.7
50°-60°	46.8	6.9
60°-70°	30.3	4.5
70°-80°	16.2	2.4
80°-90°	4.8	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°	396.2	58.2
0°-40°	516.5	75.9
0°-60°	629.0	92.4
0°-90°	680.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	680.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	550	
5°	546	52
15°	513	144
25°	446	200
35°	171	120
45°	85	66
55°	52	47
65°	30	30
75°	15	16
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	549.9
2.5°	549.0
5°	546.5
7.5°	540.4
10°	531.2
12.5°	522.6
15°	513.4
17.5°	501.7
20°	487.4
22.5°	470.2
25°	446.3
27.5°	408.7
30°	351.8
32.5°	257.8
35°	171.2
37.5°	126.6
40°	107.3
42.5°	95.0
45°	84.8
47.5°	75.3
50°	66.6
52.5°	58.4
55°	51.9
57.5°	45.8
60°	40.2
62.5°	35.1
65°	30.5
67.5°	25.9
70°	22.3
72.5°	18.3
75°	15.3
77.5°	12.2
80°	9.2
82.5°	6.6
85°	4.5
87.5°	2.0
90°	0.0



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— 0°-180°







(END OF REPORT)