

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: P583782

Luminaire Tested: **HC810D010-HM80520930-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583782
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: HC810D010-HM80520930-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1037.1 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

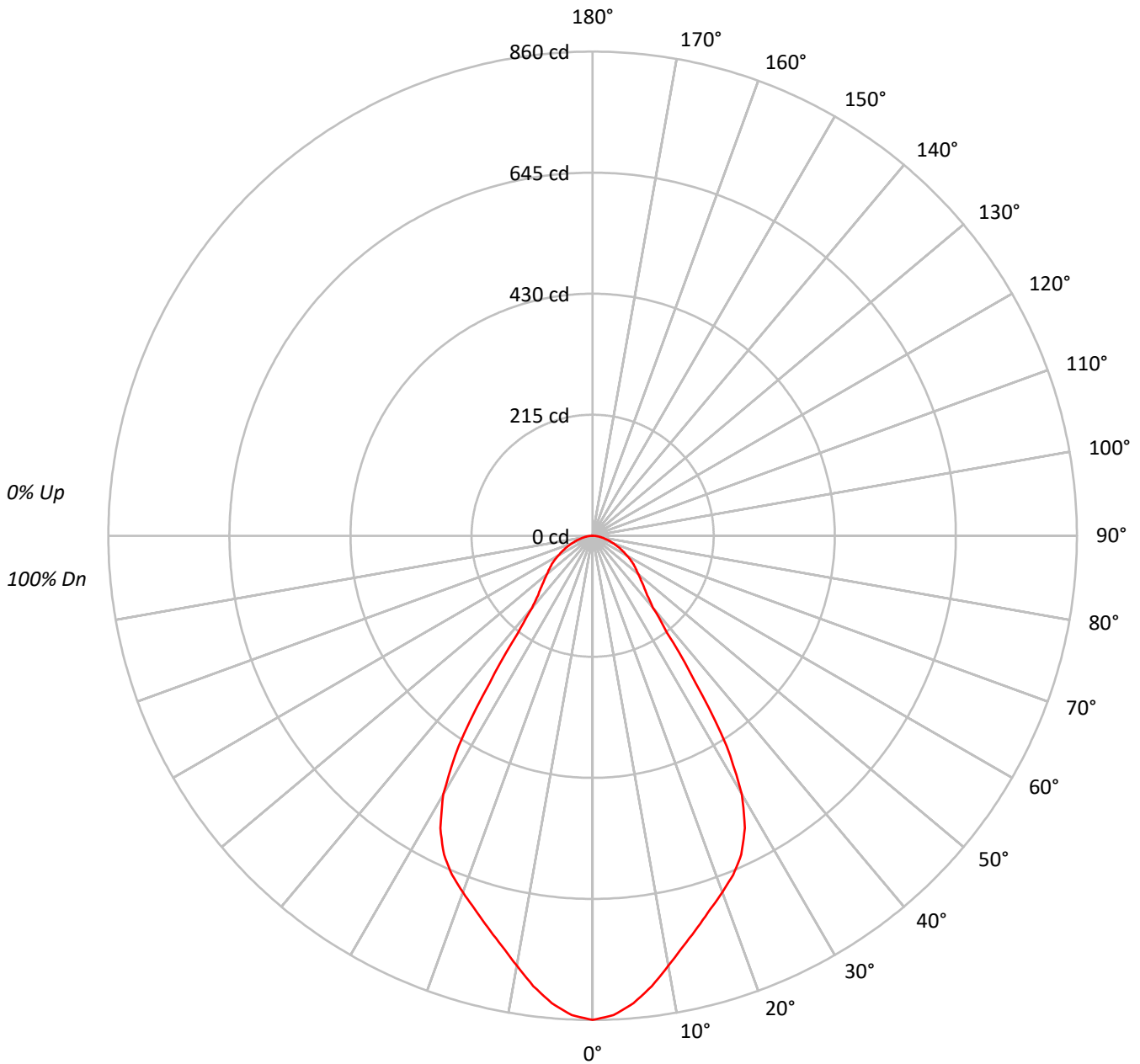
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	26516
5°	25794
10°	24273
15°	22982
20°	22108
25°	21255
30°	18875
35°	12024
40°	6710
45°	5621
50°	5076
55°	4779
60°	4360
65°	3940
70°	3471
75°	3098
80°	2735
85°	2477



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	7.5
10°-20°	203.0	19.6
20°-30°	283.3	27.3
30°-40°	203.8	19.7
40°-50°	101.0	9.7
50°-60°	79.0	7.6
60°-70°	53.6	5.2
70°-80°	27.8	2.7
80°-90°	8.0	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°	564.0	54.4
0°-40°	767.8	74.0
0°-60°	947.8	91.4
0°-90°	1037.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1037.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	860	
5°	833	78
15°	720	203
25°	625	283
35°	319	204
45°	129	101
55°	89	79
65°	54	54
75°	26	28
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	859.9
2.5°	852.2
5°	833.3
7.5°	806.8
10°	775.2
12.5°	745.8
15°	719.9
17.5°	695.4
20°	673.7
22.5°	652.0
25°	624.7
27.5°	585.5
30°	530.1
32.5°	443.3
35°	319.4
37.5°	217.8
40°	166.7
42.5°	143.5
45°	128.9
47.5°	116.2
50°	105.8
52.5°	96.6
55°	88.9
57.5°	79.8
60°	70.7
62.5°	61.7
65°	54.0
67.5°	46.3
70°	38.5
72.5°	32.2
75°	26.0
77.5°	20.3
80°	15.4
82.5°	11.2
85°	7.0
87.5°	3.5
90°	0.0



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— 0°-180°







(END OF REPORT)