

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: P583765

Luminaire Tested: **HC810D010-HM80520927-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583765
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-HM80520927-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 936.4 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

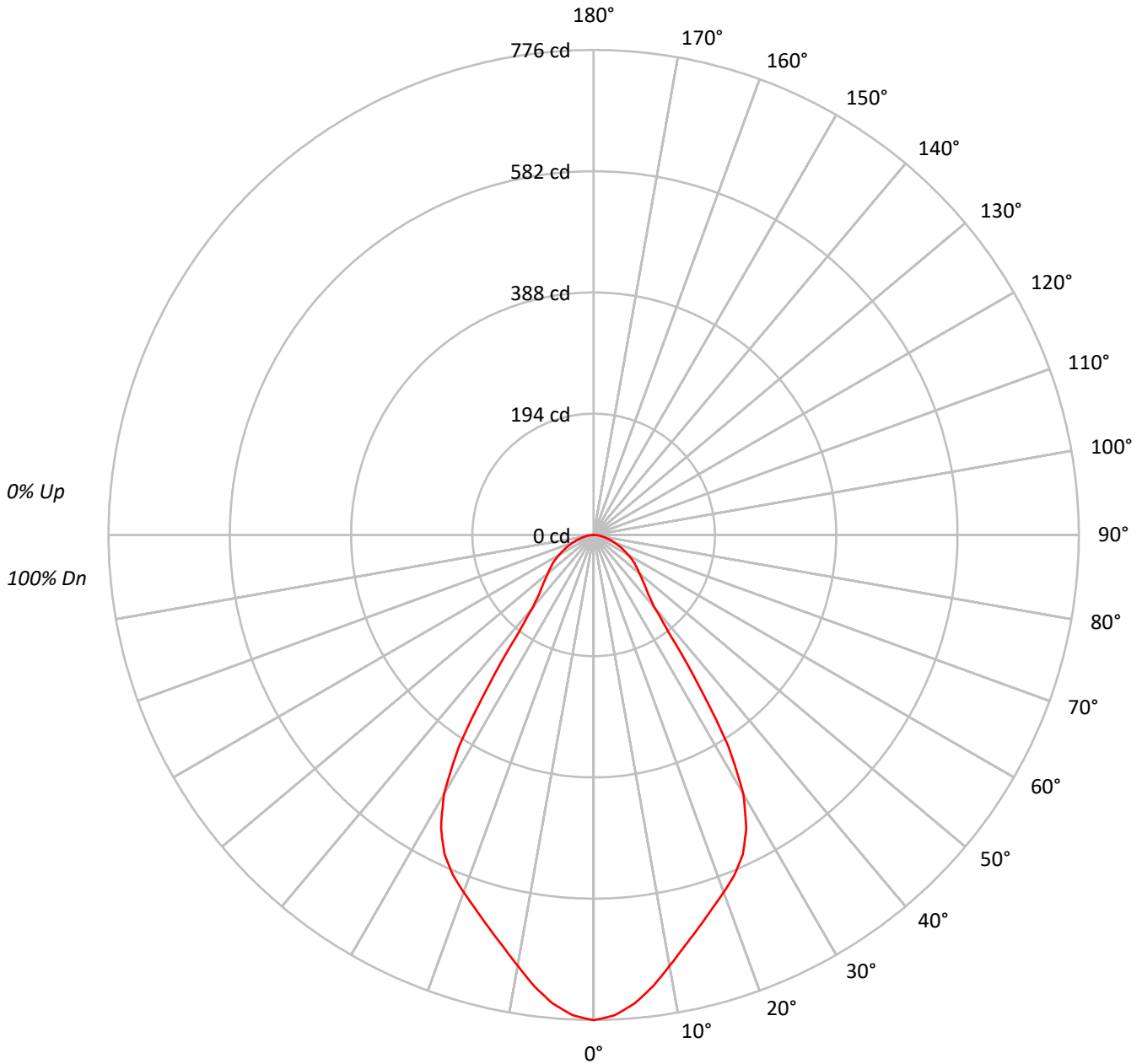
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	23944
5°	23293
10°	21918
15°	20751
20°	19962
25°	19193
30°	17041
35°	10857
40°	6058
45°	5076
50°	4577
55°	4317
60°	3935
65°	3553
70°	3129
75°	2788
80°	2468
85°	2264



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	7.5
10°-20°	183.3	19.6
20°-30°	255.7	27.3
30°-40°	184.0	19.7
40°-50°	91.2	9.7
50°-60°	71.3	7.6
60°-70°	48.3	5.2
70°-80°	25.1	2.7
80°-90°	7.2	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°	509.2	54.4
0°-40°	693.3	74.0
0°-60°	855.8	91.4
0°-90°	936.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	936.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	776	
5°	752	70
15°	650	183
25°	564	256
35°	288	184
45°	116	91
55°	80	71
65°	49	48
75°	23	25
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	776.5
2.5°	769.5
5°	752.5
7.5°	728.4
10°	700.0
12.5°	673.5
15°	650.0
17.5°	627.9
20°	608.3
22.5°	588.7
25°	564.1
27.5°	528.6
30°	478.6
32.5°	400.3
35°	288.4
37.5°	196.6
40°	150.5
42.5°	129.6
45°	116.4
47.5°	104.9
50°	95.4
52.5°	87.3
55°	80.3
57.5°	72.1
60°	63.8
62.5°	55.7
65°	48.7
67.5°	41.7
70°	34.7
72.5°	29.1
75°	23.4
77.5°	18.4
80°	13.9
82.5°	10.1
85°	6.4
87.5°	3.1
90°	0.0



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— 0°-180°







(END OF REPORT)