

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: P583799

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583799
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-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: 1095.2 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

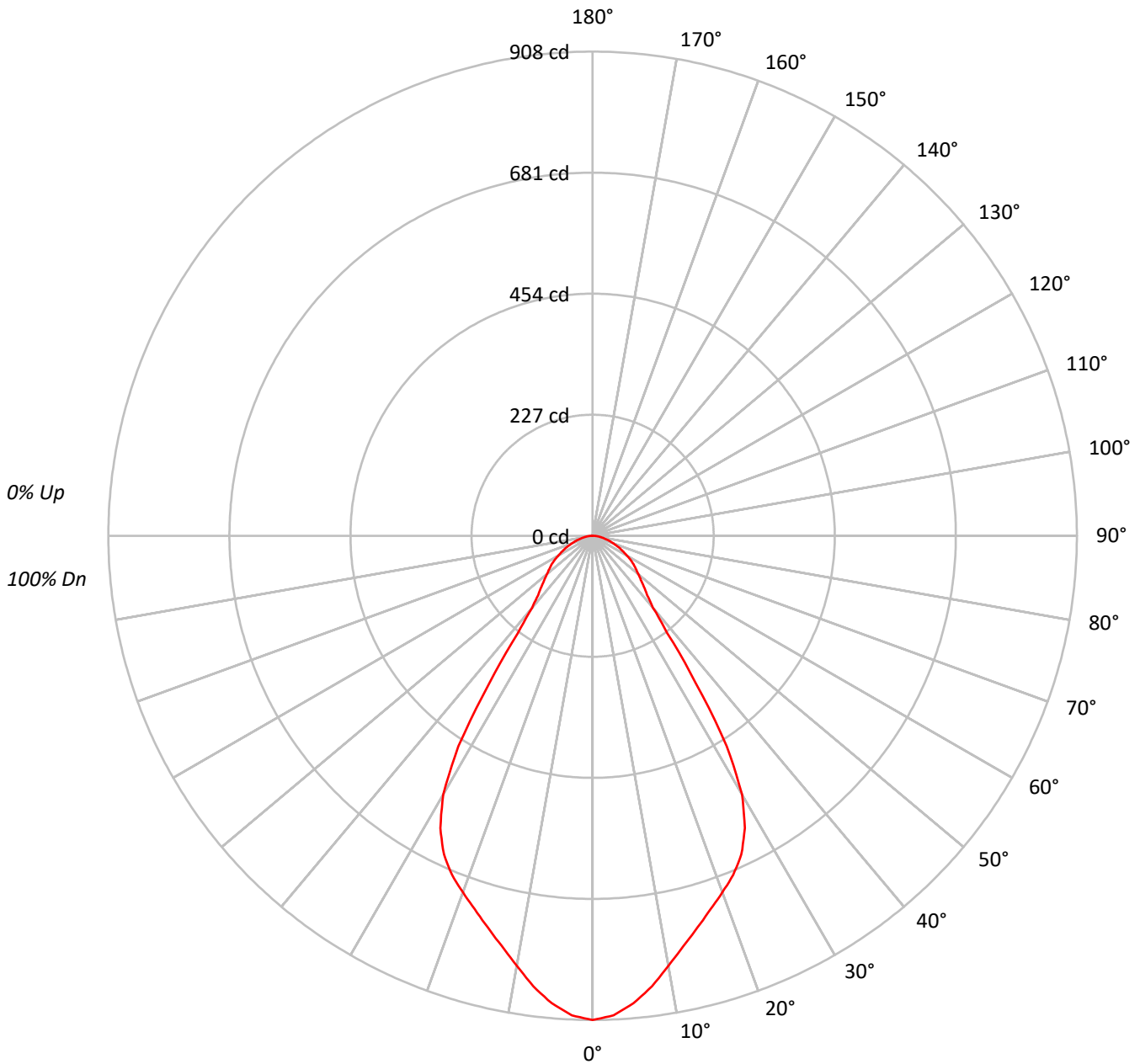
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			59
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			54
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			43
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	28002
5°	27243
10°	25635
15°	24272
20°	23348
25°	22446
30°	19936
35°	12697
40°	7085
45°	5935
50°	5359
55°	5048
60°	4601
65°	4159
70°	3660
75°	3265
80°	2877
85°	2654



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	7.5
10°-20°	214.4	19.6
20°-30°	299.1	27.3
30°-40°	215.2	19.7
40°-50°	106.7	9.7
50°-60°	83.4	7.6
60°-70°	56.5	5.2
70°-80°	29.3	2.7
80°-90°	8.5	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°	595.6	54.4
0°-40°	810.8	74.0
0°-60°	1000.9	91.4
0°-90°	1095.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1095.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	908	
5°	880	82
15°	760	214
25°	660	299
35°	337	215
45°	136	107
55°	94	83
65°	57	56
75°	27	29
85°	8	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	908.1
2.5°	900.1
5°	880.1
7.5°	852.0
10°	818.7
12.5°	787.7
15°	760.3
17.5°	734.4
20°	711.5
22.5°	688.5
25°	659.7
27.5°	618.3
30°	559.9
32.5°	468.2
35°	337.3
37.5°	229.9
40°	176.0
42.5°	151.6
45°	136.1
47.5°	122.7
50°	111.7
52.5°	102.0
55°	93.9
57.5°	84.3
60°	74.6
62.5°	65.0
65°	57.0
67.5°	48.8
70°	40.6
72.5°	34.0
75°	27.4
77.5°	21.4
80°	16.2
82.5°	11.8
85°	7.5
87.5°	3.7
90°	0.0



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— 0°-180°







(END OF REPORT)