

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: P583809

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC810D010-HM80520935-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1135.9 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

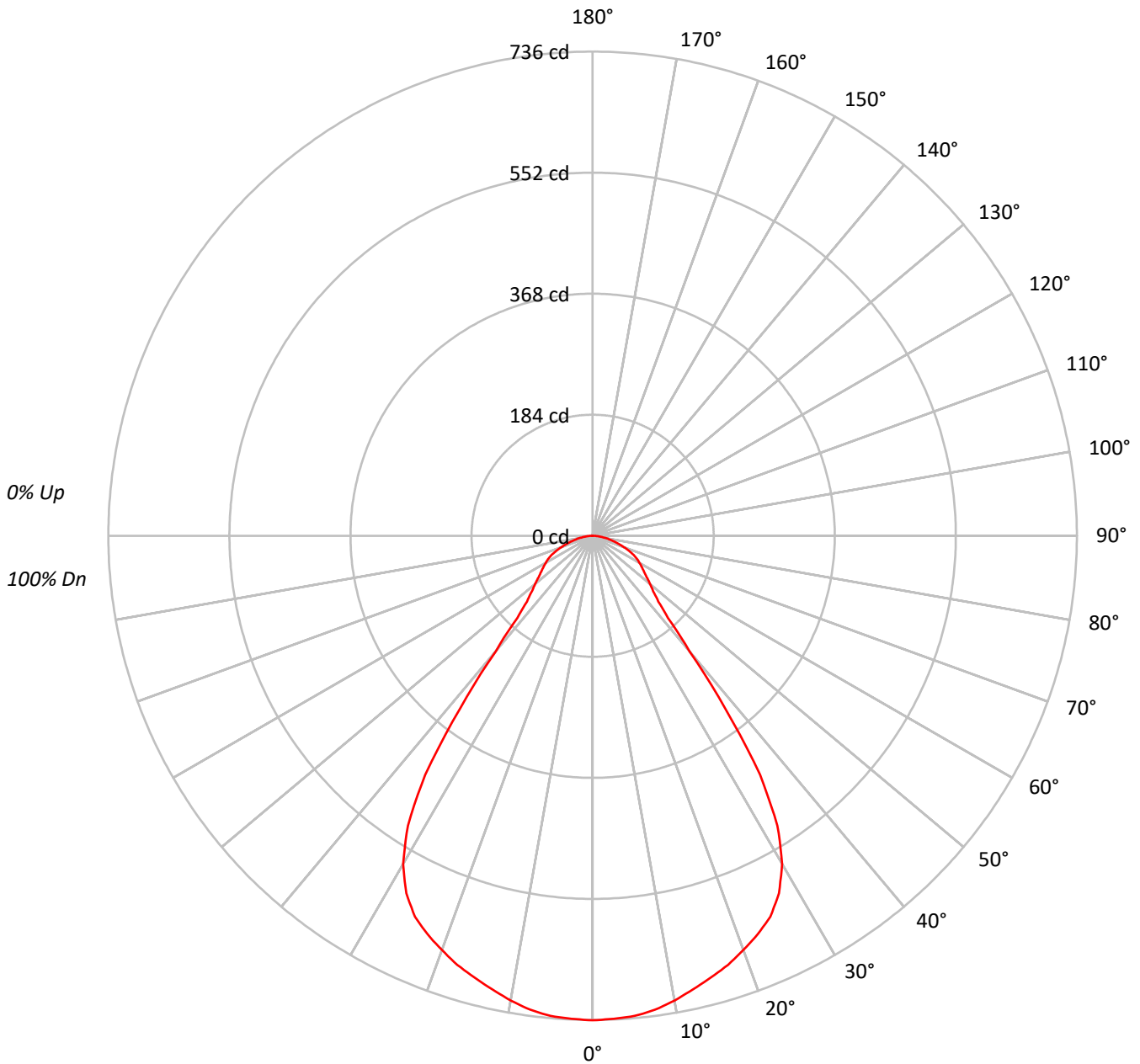
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	22711
5°	22680
10°	22457
15°	22187
20°	21983
25°	21738
30°	20509
35°	16703
40°	9226
45°	6158
50°	5459
55°	5129
60°	5063
65°	5020
70°	4526
75°	4051
80°	3552
85°	3149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	6.1
10°-20°	196.2	17.3
20°-30°	291.6	25.7
30°-40°	262.6	23.1
40°-50°	116.4	10.2
50°-60°	86.2	7.6
60°-70°	67.1	5.9
70°-80°	36.4	3.2
80°-90°	10.0	0.9
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°	557.3	49.1
0°-40°	819.9	72.2
0°-60°	1022.5	90.0
0°-90°	1135.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1135.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	736	
5°	733	69
15°	695	196
25°	639	292
35°	444	263
45°	141	116
55°	95	86
65°	69	67
75°	34	36
85°	9	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	736.5
2.5°	734.9
5°	732.7
7.5°	726.8
10°	717.2
12.5°	706.1
15°	695.0
17.5°	683.9
20°	669.9
22.5°	655.8
25°	638.9
27.5°	612.9
30°	576.0
32.5°	522.7
35°	443.7
37.5°	331.3
40°	229.2
42.5°	169.4
45°	141.2
47.5°	125.0
50°	113.8
52.5°	103.5
55°	95.4
57.5°	88.7
60°	82.1
62.5°	76.2
65°	68.8
67.5°	59.9
70°	50.2
72.5°	42.2
75°	34.0
77.5°	26.6
80°	20.0
82.5°	14.1
85°	8.9
87.5°	3.7
90°	0.0



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— 0°-180°







(END OF REPORT)