

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: P583816

Luminaire Tested: **HC810D010-HM80520940-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583816
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-HM80520940-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1127.7 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

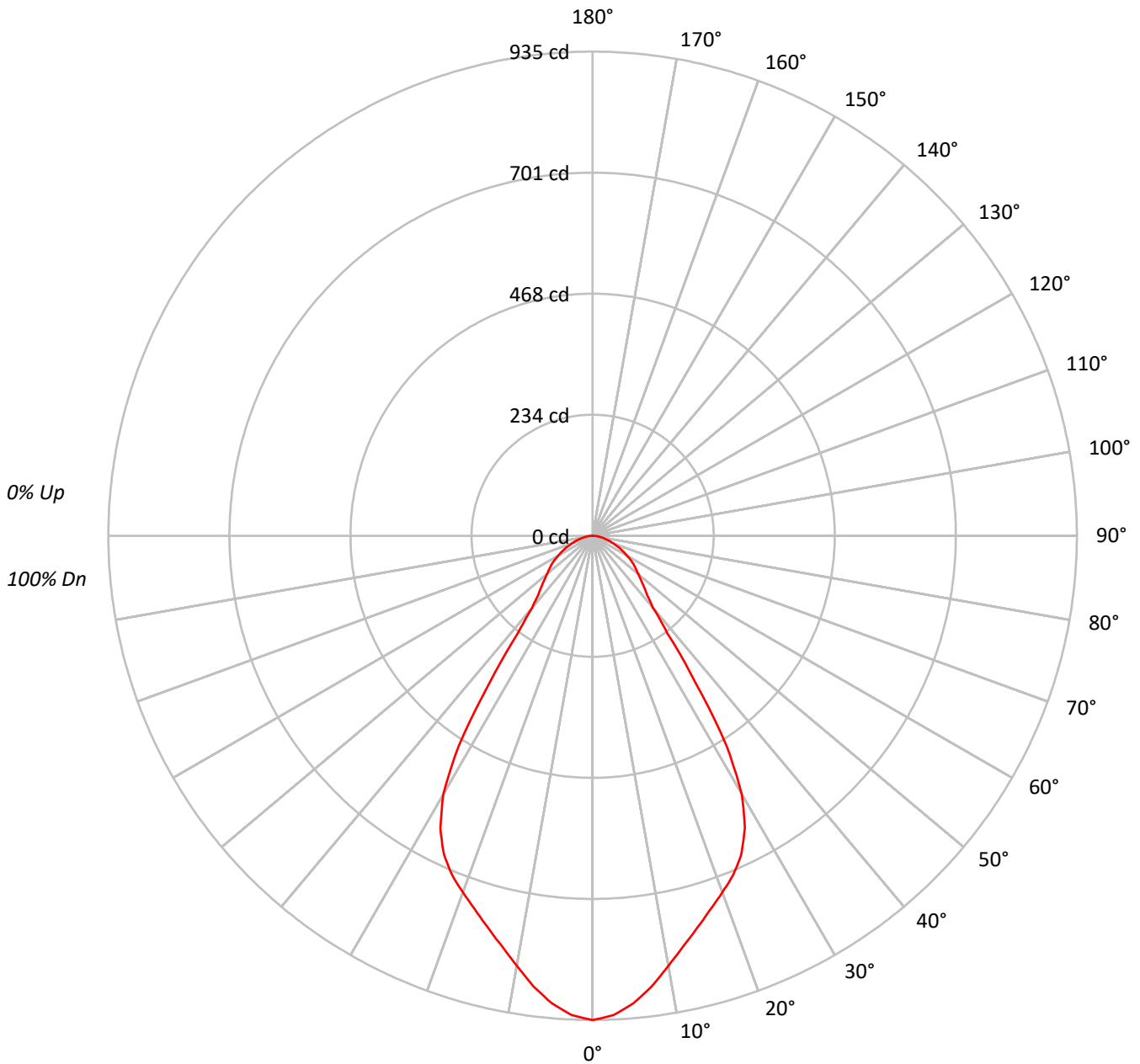
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	100	102	99	97	98	96	94	94	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80																			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72																			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65																			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59																			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54																			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50																			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46																			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43																			
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	28838
5°	28051
10°	26396
15°	24993
20°	24041
25°	23113
30°	20527
35°	13074
40°	7298
45°	6114
50°	5517
55°	5204
60°	4743
65°	4283
70°	3769
75°	3348
80°	2966
85°	2689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.5	7.5
10°-20°	220.8	19.6
20°-30°	308.0	27.3
30°-40°	221.6	19.7
40°-50°	109.9	9.7
50°-60°	86.0	7.6
60°-70°	58.2	5.2
70°-80°	30.2	2.7
80°-90°	8.7	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°	613.3	54.4
0°-40°	834.9	74.0
0°-60°	1030.7	91.4
0°-90°	1127.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1127.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	935	
5°	906	84
15°	783	221
25°	679	308
35°	347	222
45°	140	110
55°	97	86
65°	59	58
75°	28	30
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	935.2
2.5°	926.7
5°	906.2
7.5°	877.2
10°	843.0
12.5°	811.0
15°	782.9
17.5°	756.2
20°	732.6
22.5°	708.9
25°	679.3
27.5°	636.6
30°	576.5
32.5°	482.0
35°	347.3
37.5°	236.8
40°	181.3
42.5°	156.1
45°	140.2
47.5°	126.5
50°	115.0
52.5°	105.1
55°	96.8
57.5°	86.8
60°	76.9
62.5°	67.1
65°	58.7
67.5°	50.2
70°	41.8
72.5°	35.0
75°	28.1
77.5°	22.1
80°	16.7
82.5°	12.1
85°	7.6
87.5°	3.8
90°	0.0



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— 0°-180°







(END OF REPORT)