

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: P583792

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583792
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-HM80520930-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1075.6 lumens
Efficiency: N/A
Efficacy: 108.6 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

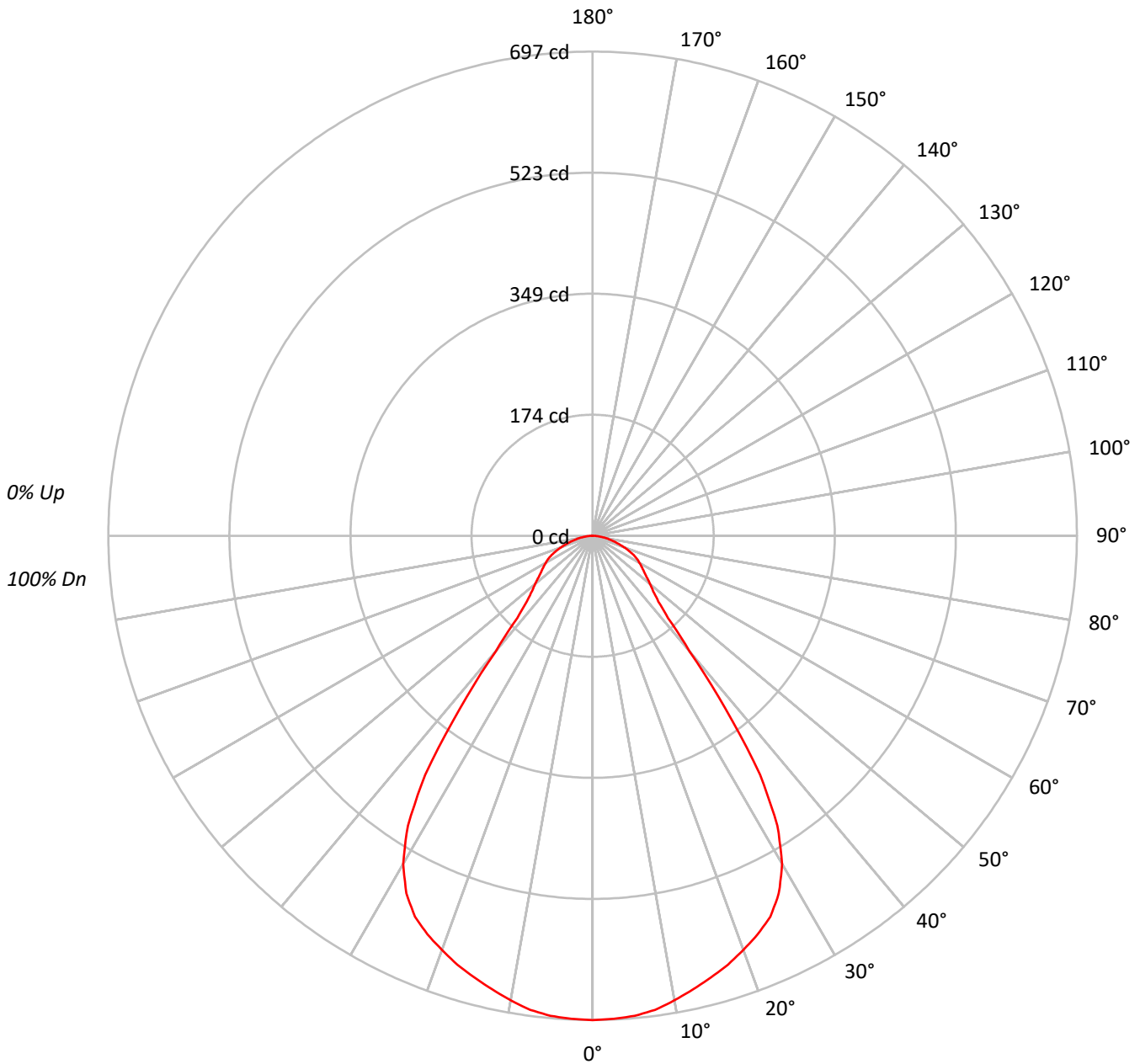
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	21502
5°	21476
10°	21264
15°	21009
20°	20815
25°	20585
30°	19416
35°	15814
40°	8739
45°	5835
50°	5171
55°	4855
60°	4798
65°	4750
70°	4292
75°	3836
80°	3356
85°	2972



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	6.1
10°-20°	185.8	17.3
20°-30°	276.1	25.7
30°-40°	248.7	23.1
40°-50°	110.2	10.2
50°-60°	81.6	7.6
60°-70°	63.5	5.9
70°-80°	34.4	3.2
80°-90°	9.4	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°	527.7	49.1
0°-40°	776.4	72.2
0°-60°	968.3	90.0
0°-90°	1075.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1075.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	697	
5°	694	66
15°	658	186
25°	605	276
35°	420	249
45°	134	110
55°	90	82
65°	65	63
75°	32	34
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	697.3
2.5°	696.0
5°	693.8
7.5°	688.3
10°	679.1
12.5°	668.7
15°	658.1
17.5°	647.6
20°	634.3
22.5°	621.1
25°	605.0
27.5°	580.4
30°	545.3
32.5°	495.0
35°	420.1
37.5°	313.6
40°	217.1
42.5°	160.3
45°	133.8
47.5°	118.3
50°	107.8
52.5°	98.0
55°	90.3
57.5°	84.0
60°	77.8
62.5°	72.1
65°	65.1
67.5°	56.7
70°	47.6
72.5°	39.9
75°	32.2
77.5°	25.2
80°	18.9
82.5°	13.3
85°	8.4
87.5°	3.5
90°	0.0



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— 0°-180°







(END OF REPORT)