

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: P583697

Luminaire Tested: **HC810D010-HM80520827-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583697
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-HM80520827-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1153.3 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

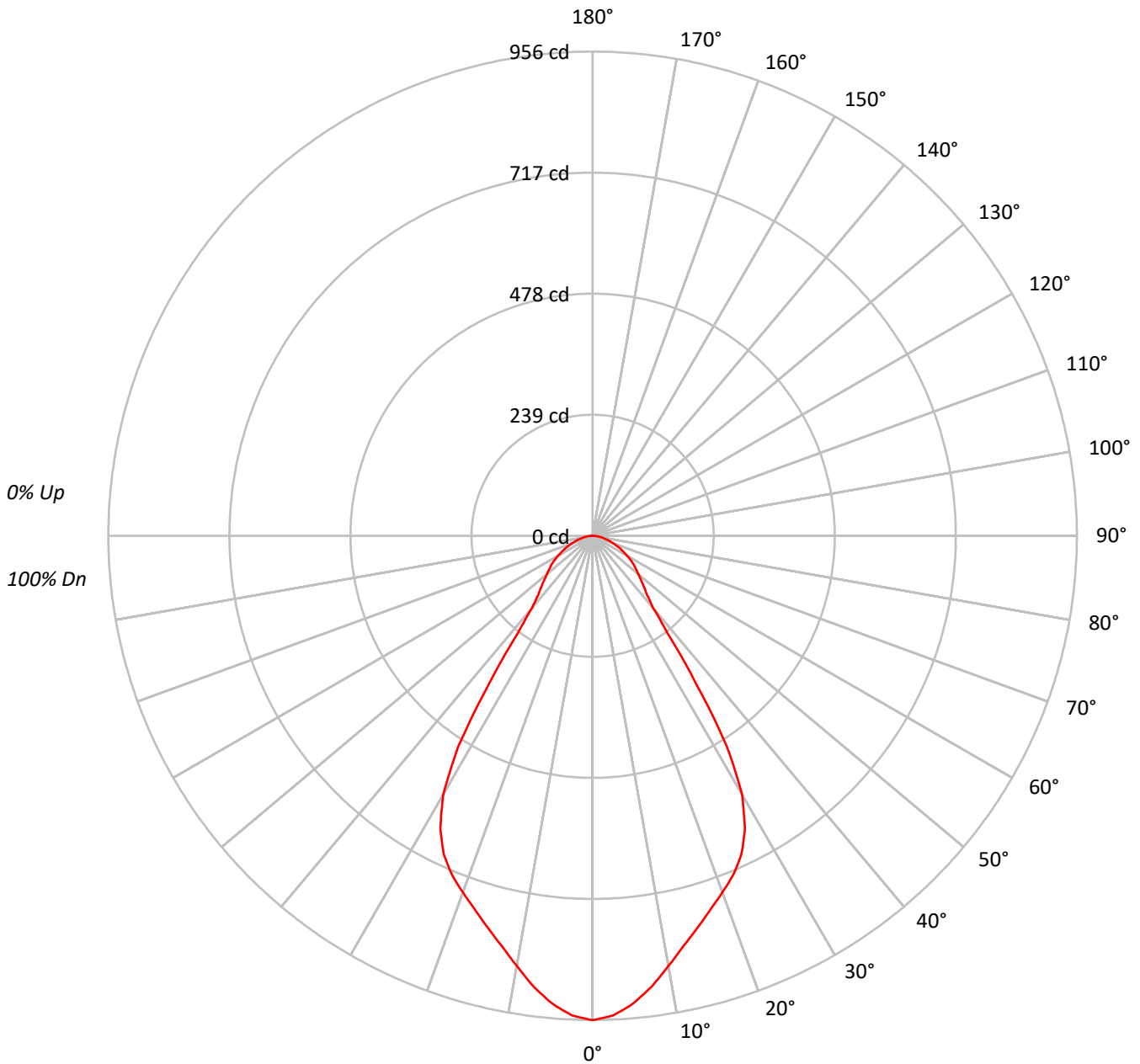
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	29492
5°	28685
10°	26997
15°	25562
20°	24585
25°	23633
30°	20994
35°	13371
40°	7459
45°	6249
50°	5642
55°	5317
60°	4847
65°	4378
70°	3859
75°	3431
80°	3054
85°	2760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	7.5
10°-20°	225.8	19.6
20°-30°	315.0	27.3
30°-40°	226.7	19.7
40°-50°	112.3	9.7
50°-60°	87.9	7.6
60°-70°	59.5	5.2
70°-80°	30.9	2.7
80°-90°	8.9	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°	627.2	54.4
0°-40°	853.8	74.0
0°-60°	1054.0	91.4
0°-90°	1153.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1153.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	956	
5°	927	86
15°	801	226
25°	695	315
35°	355	227
45°	143	112
55°	99	88
65°	60	59
75°	29	31
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	956.4
2.5°	947.8
5°	926.7
7.5°	897.2
10°	862.2
12.5°	829.4
15°	800.7
17.5°	773.4
20°	749.2
22.5°	725.0
25°	694.6
27.5°	651.1
30°	589.6
32.5°	492.9
35°	355.2
37.5°	242.2
40°	185.3
42.5°	159.6
45°	143.3
47.5°	129.3
50°	117.6
52.5°	107.5
55°	98.9
57.5°	88.8
60°	78.6
62.5°	68.5
65°	60.0
67.5°	51.4
70°	42.8
72.5°	35.8
75°	28.8
77.5°	22.6
80°	17.2
82.5°	12.5
85°	7.8
87.5°	3.8
90°	0.0



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— 0°-180°







(END OF REPORT)