

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: P584016

Luminaire Tested: **HC820D010-HM80520840-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584016
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: HC820D010-HM80520840-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2396.8 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

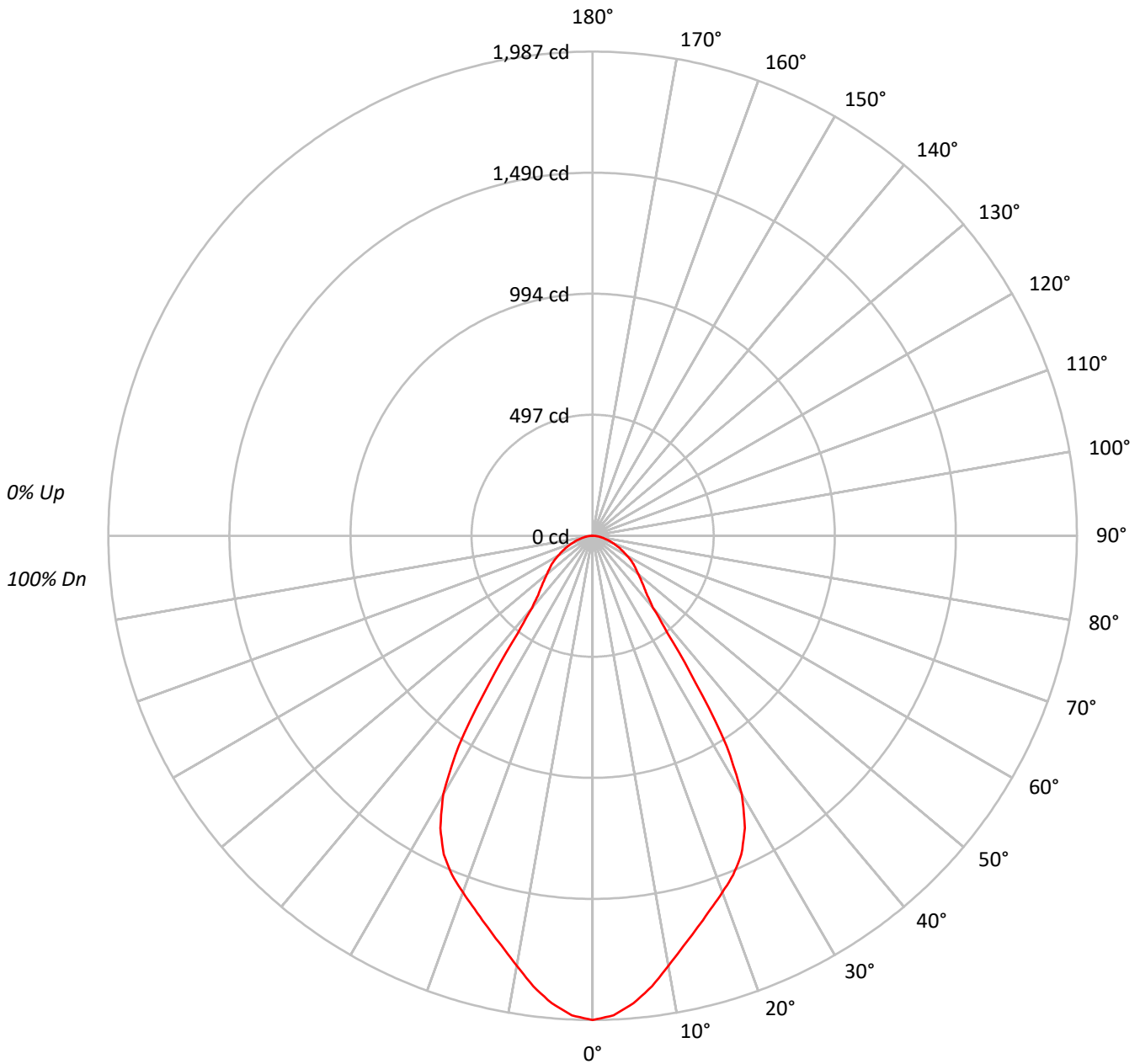
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	61284
5°	59618
10°	56099
15°	53115
20°	51090
25°	49121
30°	43622
35°	27781
40°	15506
45°	12982
50°	11725
55°	11048
60°	10083
65°	9091
70°	8024
75°	7137
80°	6322
85°	5732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.6	7.5
10°-20°	469.2	19.6
20°-30°	654.6	27.3
30°-40°	471.0	19.7
40°-50°	233.4	9.7
50°-60°	182.6	7.6
60°-70°	123.7	5.2
70°-80°	64.2	2.7
80°-90°	18.5	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°	1303.4	54.4
0°-40°	1774.4	74.0
0°-60°	2190.4	91.4
0°-90°	2396.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2396.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1987	
5°	1926	180
15°	1664	469
25°	1444	655
35°	738	471
45°	298	233
55°	206	183
65°	125	124
75°	60	64
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1987.4
2.5°	1969.7
5°	1926.0
7.5°	1864.5
10°	1791.6
12.5°	1723.6
15°	1663.8
17.5°	1607.2
20°	1556.9
22.5°	1506.8
25°	1443.7
27.5°	1353.0
30°	1225.1
32.5°	1024.4
35°	738.0
37.5°	503.3
40°	385.2
42.5°	331.8
45°	297.7
47.5°	268.7
50°	244.4
52.5°	223.4
55°	205.5
57.5°	184.5
60°	163.5
62.5°	142.4
65°	124.6
67.5°	106.9
70°	89.0
72.5°	74.5
75°	59.9
77.5°	46.9
80°	35.6
82.5°	25.9
85°	16.2
87.5°	8.0
90°	0.0



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— 0°-180°







(END OF REPORT)