

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: P584001

Luminaire Tested: **HC820D010-HM80520835-81MDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC820D010-HM80520835-81MDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2224.8 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

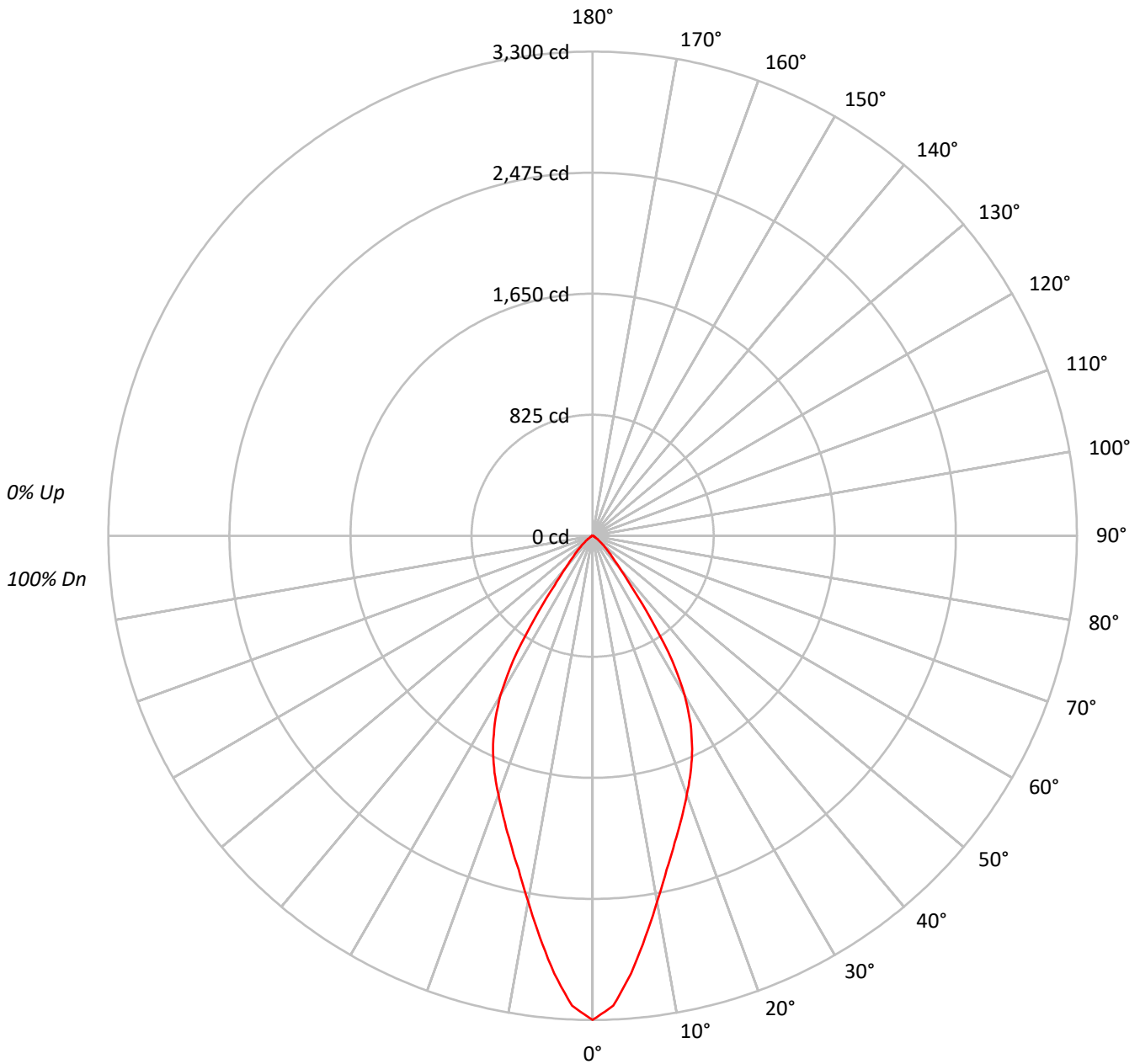
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81			
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76			
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71			
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66			
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58			
9	76	67	61	57	75	66	61	57	65	60	56	64	60	56	63	59	56	55			
10	73	63	57	54	72	63	57	53	62	57	53	61	56	53	60	56	53	52			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	101748
5°	92717
10°	79223
15°	69084
20°	61575
25°	54622
30°	44722
35°	25685
40°	11396
45°	6633
50°	3828
55°	2188
60°	1209
65°	766
70°	541
75°	357
80°	266
85°	531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.1	12.2
10°-20°	608.3	27.3
20°-30°	728.1	32.7
30°-40°	440.5	19.8
40°-50°	123.5	5.5
50°-60°	38.3	1.7
60°-70°	11.0	0.5
70°-80°	3.0	0.1
80°-90°	1.0	0.0
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°	1607.6	72.3
0°-40°	2048.1	92.1
0°-60°	2209.9	99.3
0°-90°	2224.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2224.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3300	
5°	2995	271
15°	2164	608
25°	1605	728
35°	682	441
45°	152	123
55°	41	38
65°	10	11
75°	3	3
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3299.6
2.5°	3206.2
5°	2995.3
7.5°	2757.4
10°	2530.1
12.5°	2331.3
15°	2164.0
17.5°	2016.5
20°	1876.4
22.5°	1746.9
25°	1605.4
27.5°	1445.7
30°	1256.0
32.5°	1010.5
35°	682.3
37.5°	424.7
40°	283.1
42.5°	203.3
45°	152.1
47.5°	111.5
50°	79.8
52.5°	55.7
55°	40.7
57.5°	27.1
60°	19.6
62.5°	13.6
65°	10.5
67.5°	7.6
70°	6.0
72.5°	3.0
75°	3.0
77.5°	1.5
80°	1.5
82.5°	1.5
85°	1.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)