

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: P584004

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC820D010-HM80520835-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2016.9 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

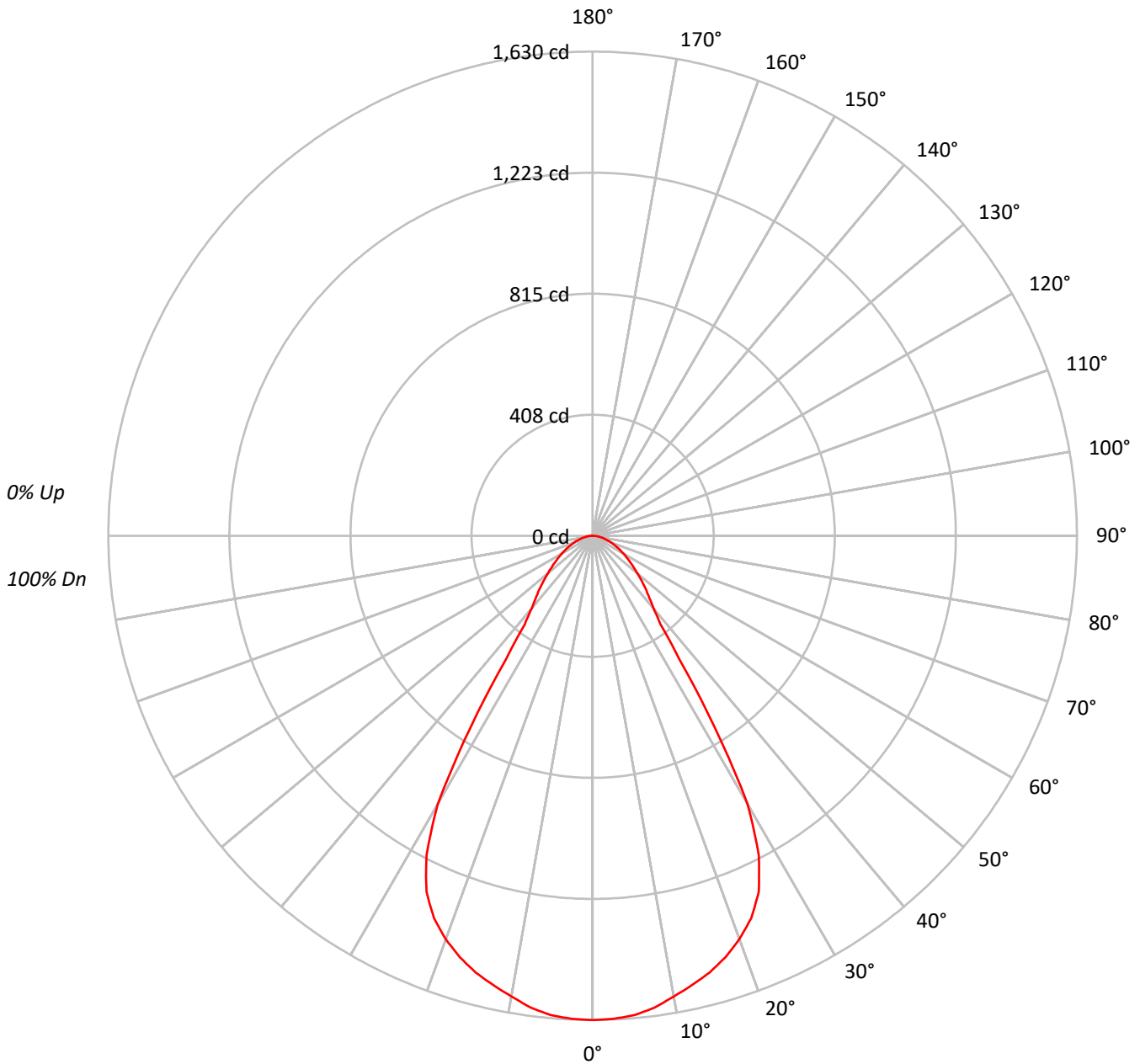
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	102	100	98	98	96	95	95	93	92	90			
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	50272
5°	50139
10°	49301
15°	48582
20°	47418
25°	45010
30°	37124
35°	19116
40°	12801
45°	10972
50°	9470
55°	8263
60°	7339
65°	6596
70°	5978
75°	5385
80°	4812
85°	4812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.1	7.6
10°-20°	428.2	21.2
20°-30°	593.2	29.4
30°-40°	356.3	17.7
40°-50°	195.1	9.7
50°-60°	138.6	6.9
60°-70°	90.0	4.5
70°-80°	48.1	2.4
80°-90°	14.4	0.7
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°	1174.6	58.2
0°-40°	1530.9	75.9
0°-60°	1864.5	92.4
0°-90°	2016.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2016.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1630	
5°	1620	153
15°	1522	428
25°	1323	593
35°	508	356
45°	252	195
55°	154	139
65°	90	90
75°	45	48
85°	14	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1630.3
2.5°	1627.4
5°	1619.8
7.5°	1601.7
10°	1574.5
12.5°	1549.0
15°	1521.8
17.5°	1487.2
20°	1445.0
22.5°	1393.8
25°	1322.9
27.5°	1211.4
30°	1042.6
32.5°	763.9
35°	507.8
37.5°	375.2
40°	318.0
42.5°	281.8
45°	251.6
47.5°	223.0
50°	197.4
52.5°	173.3
55°	153.7
57.5°	135.6
60°	119.0
62.5°	104.0
65°	90.4
67.5°	76.8
70°	66.3
72.5°	54.3
75°	45.2
77.5°	36.2
80°	27.1
82.5°	19.6
85°	13.6
87.5°	6.0
90°	0.0



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— 0°-180°







(END OF REPORT)