

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: P583859

Luminaire Tested: **HC815D010-HM80520830-81WDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC815D010-HM80520830-81WDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1691.5 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

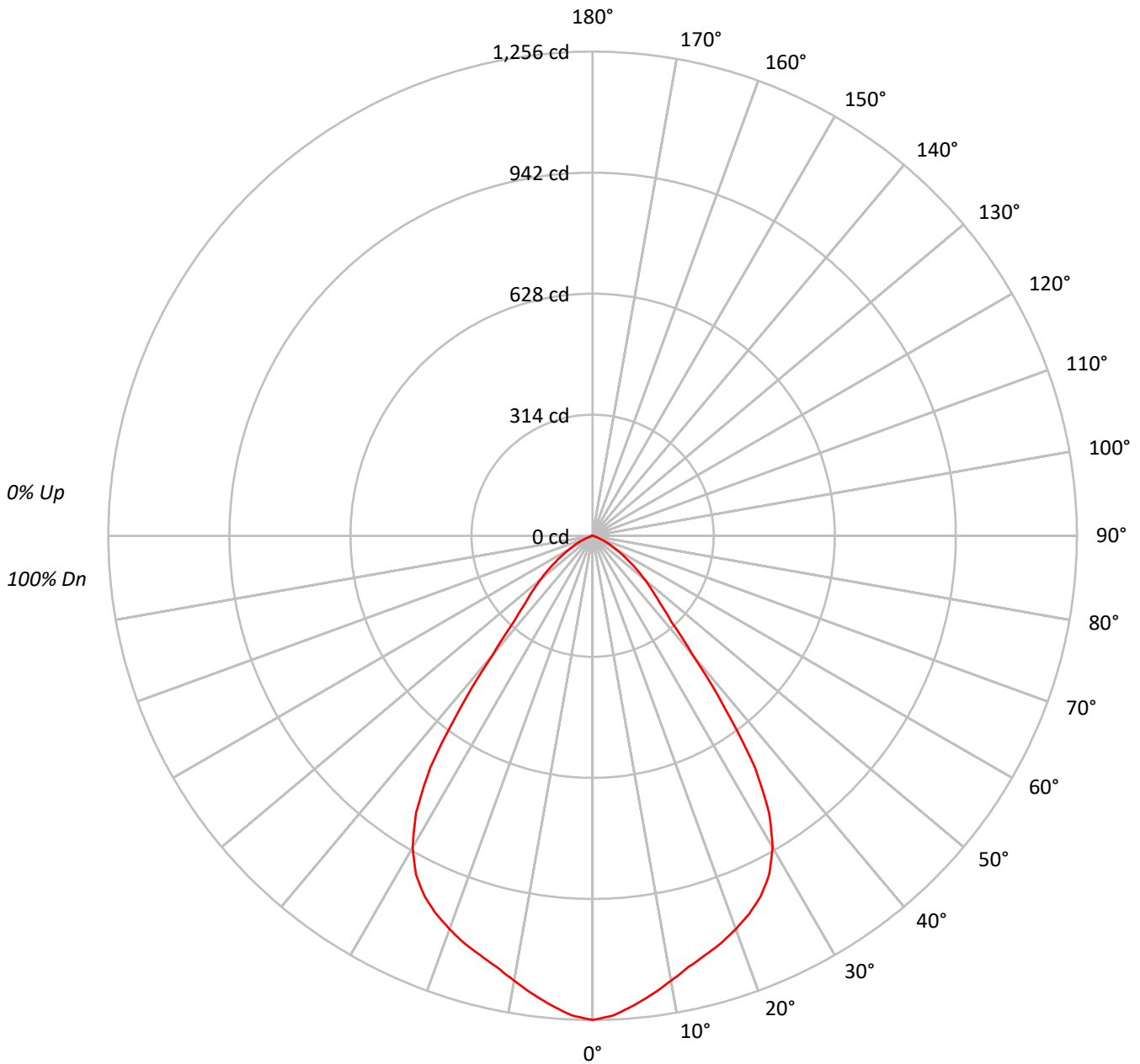
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68			
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62			
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57			
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	38727
5°	37857
10°	36695
15°	35953
20°	35628
25°	35096
30°	33242
35°	27620
40°	16263
45°	10758
50°	8467
55°	6231
60°	4323
65°	2641
70°	1154
75°	500
80°	391
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.2	6.8
10°-20°	318.4	18.8
20°-30°	471.7	27.9
30°-40°	435.8	25.8
40°-50°	201.0	11.9
50°-60°	105.7	6.2
60°-70°	37.3	2.2
70°-80°	5.9	0.3
80°-90°	0.6	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°	905.2	53.5
0°-40°	1341.1	79.3
0°-60°	1647.7	97.4
0°-90°	1691.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1691.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1256	
5°	1223	115
15°	1126	318
25°	1032	472
35°	734	436
45°	247	201
55°	116	106
65°	36	37
75°	4	6
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1255.9
2.5°	1245.2
5°	1223.0
7.5°	1198.5
10°	1171.9
12.5°	1146.3
15°	1126.2
17.5°	1108.1
20°	1085.7
22.5°	1061.2
25°	1031.5
27.5°	991.1
30°	933.6
32.5°	851.8
35°	733.7
37.5°	563.6
40°	404.0
42.5°	303.1
45°	246.7
47.5°	209.5
50°	176.5
52.5°	144.6
55°	115.9
57.5°	91.5
60°	70.1
62.5°	53.1
65°	36.2
67.5°	21.2
70°	12.8
72.5°	7.5
75°	4.2
77.5°	3.1
80°	2.2
82.5°	1.1
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)