

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: P583904

Luminaire Tested: **HC815D010-HM80520927-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583904
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: HC815D010-HM80520927-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1162.2 lumens
Efficiency: N/A
Efficacy: 83.0 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

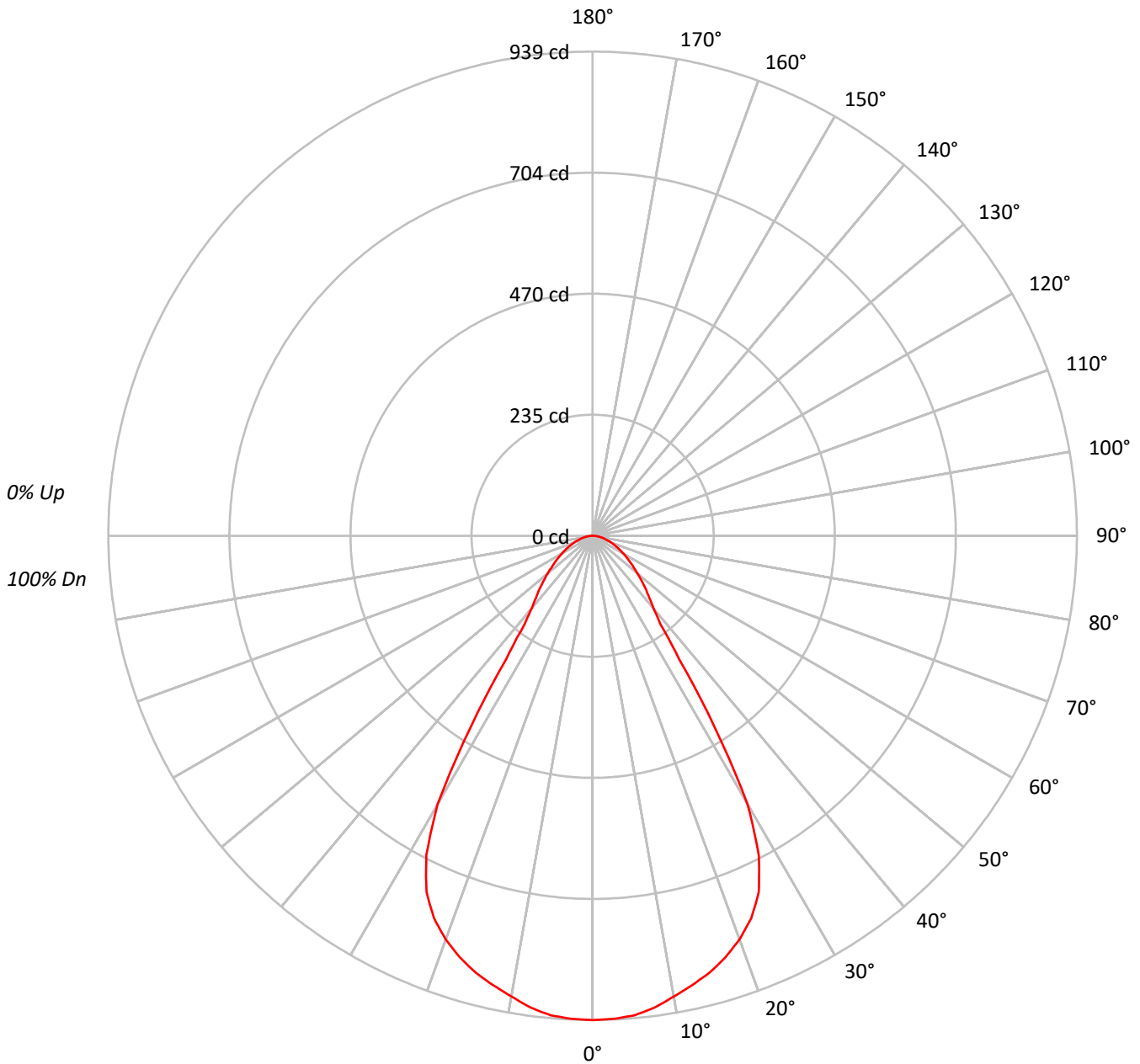
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	28968
5°	28893
10°	28406
15°	27994
20°	27325
25°	25937
30°	21393
35°	11015
40°	7375
45°	6323
50°	5459
55°	4763
60°	4231
65°	3801
70°	3444
75°	3098
80°	2788
85°	2760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	7.6
10°-20°	246.7	21.2
20°-30°	341.8	29.4
30°-40°	205.3	17.7
40°-50°	112.4	9.7
50°-60°	79.9	6.9
60°-70°	51.8	4.5
70°-80°	27.7	2.4
80°-90°	8.3	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°	676.8	58.2
0°-40°	882.1	75.9
0°-60°	1074.4	92.4
0°-90°	1162.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1162.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	939	
5°	933	88
15°	877	247
25°	762	342
35°	293	205
45°	145	112
55°	89	80
65°	52	52
75°	26	28
85°	8	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	939.4
2.5°	937.7
5°	933.4
7.5°	922.9
10°	907.2
12.5°	892.5
15°	876.9
17.5°	857.0
20°	832.7
22.5°	803.1
25°	762.3
27.5°	698.1
30°	600.8
32.5°	440.2
35°	292.6
37.5°	216.2
40°	183.2
42.5°	162.3
45°	145.0
47.5°	128.5
50°	113.8
52.5°	99.9
55°	88.6
57.5°	78.1
60°	68.6
62.5°	59.9
65°	52.1
67.5°	44.2
70°	38.2
72.5°	31.2
75°	26.0
77.5°	20.8
80°	15.7
82.5°	11.3
85°	7.8
87.5°	3.5
90°	0.0



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— 0°-180°







(END OF REPORT)