

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: P583870

Luminaire Tested: **HC815D010-HM80520835-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583870
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-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: 1481.0 lumens
Efficiency: N/A
Efficacy: 105.8 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

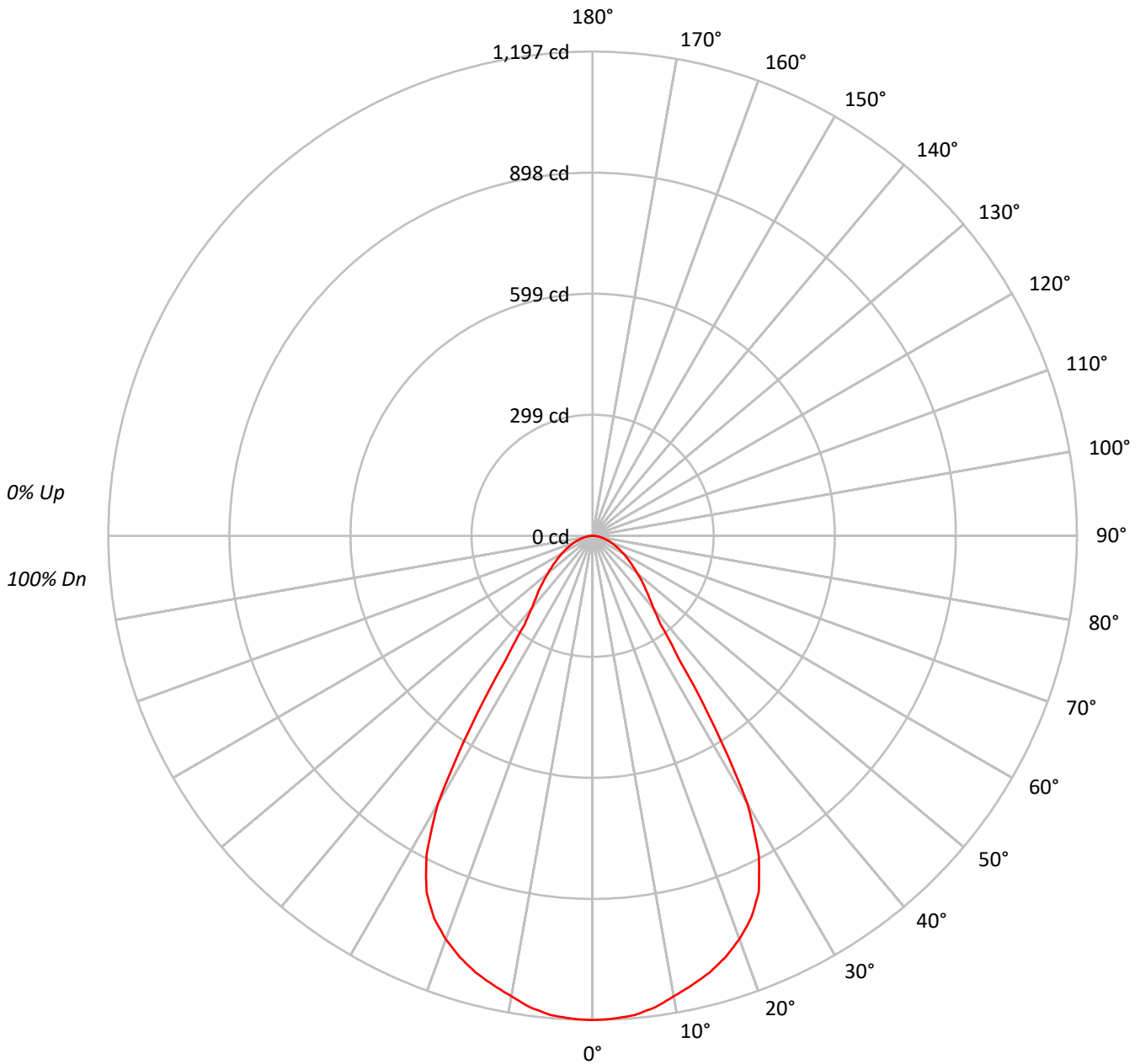
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	36917
5°	36820
10°	36203
15°	35675
20°	34820
25°	33054
30°	27264
35°	14034
40°	9395
45°	8055
50°	6956
55°	6070
60°	5390
65°	4845
70°	4391
75°	3944
80°	3534
85°	3538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	7.6
10°-20°	314.4	21.2
20°-30°	435.6	29.4
30°-40°	261.6	17.7
40°-50°	143.2	9.7
50°-60°	101.7	6.9
60°-70°	66.1	4.5
70°-80°	35.3	2.4
80°-90°	10.5	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°	862.5	58.2
0°-40°	1124.1	75.9
0°-60°	1369.1	92.4
0°-90°	1481.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1481.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1197	
5°	1190	112
15°	1118	314
25°	972	436
35°	373	262
45°	185	143
55°	113	102
65°	66	66
75°	33	35
85°	10	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1197.2
2.5°	1195.0
5°	1189.5
7.5°	1176.2
10°	1156.2
12.5°	1137.4
15°	1117.5
17.5°	1092.1
20°	1061.1
22.5°	1023.4
25°	971.5
27.5°	889.5
30°	765.7
32.5°	560.9
35°	372.8
37.5°	275.5
40°	233.4
42.5°	206.9
45°	184.7
47.5°	163.8
50°	145.0
52.5°	127.2
55°	112.9
57.5°	99.5
60°	87.4
62.5°	76.4
65°	66.4
67.5°	56.4
70°	48.7
72.5°	39.9
75°	33.1
77.5°	26.5
80°	19.9
82.5°	14.3
85°	10.0
87.5°	4.5
90°	0.0



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— 0°-180°







(END OF REPORT)