

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: P583854

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC815D010-HM80520830-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1581.0 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

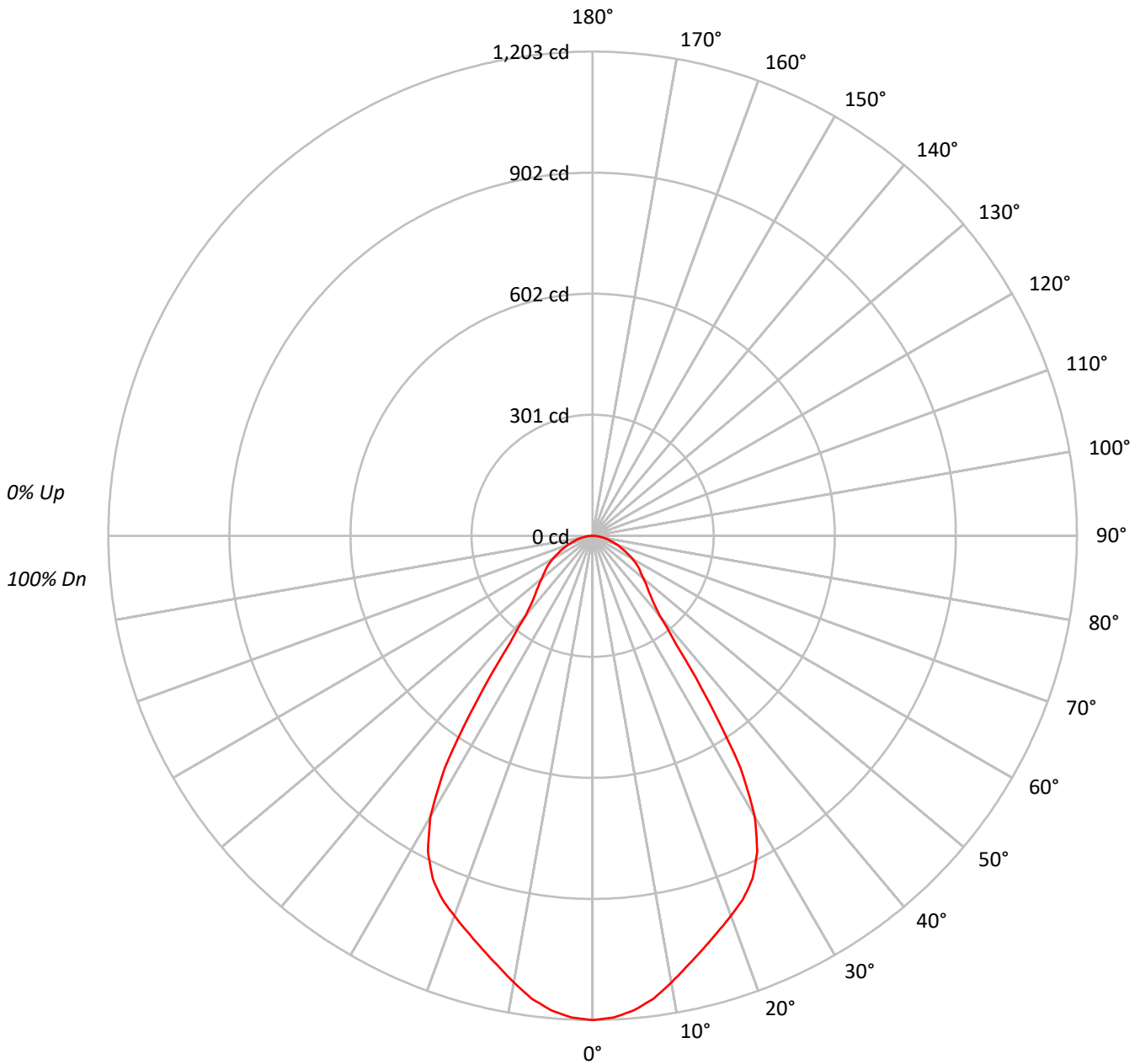
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89	89	89	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79	79	79	79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71	71	71	71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64	64	64	64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53	53	53	53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49	49	49	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42	42	42	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39	39	39	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	37108
5°	36628
10°	35286
15°	33907
20°	32970
25°	31976
30°	28695
35°	18811
40°	10402
45°	8669
50°	7906
55°	7548
60°	7018
65°	6355
70°	5743
75°	5195
80°	4724
85°	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	7.0
10°-20°	299.6	19.0
20°-30°	426.4	27.0
30°-40°	315.6	20.0
40°-50°	156.3	9.9
50°-60°	124.8	7.9
60°-70°	86.6	5.5
70°-80°	46.7	3.0
80°-90°	13.8	0.9
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°	837.3	53.0
0°-40°	1152.9	72.9
0°-60°	1434.0	90.7
0°-90°	1581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1581.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1203	
5°	1183	111
15°	1062	300
25°	940	426
35°	500	316
45°	199	156
55°	140	125
65°	87	87
75°	44	47
85°	13	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1203.4
2.5°	1198.1
5°	1183.3
7.5°	1159.9
10°	1126.9
12.5°	1092.9
15°	1062.1
17.5°	1032.3
20°	1004.7
22.5°	977.0
25°	939.8
27.5°	885.6
30°	805.9
32.5°	683.6
35°	499.7
37.5°	341.3
40°	258.4
42.5°	221.1
45°	198.8
47.5°	180.8
50°	164.8
52.5°	151.0
55°	140.4
57.5°	127.6
60°	113.8
62.5°	99.9
65°	87.1
67.5°	74.5
70°	63.7
72.5°	53.1
75°	43.6
77.5°	35.1
80°	26.6
82.5°	19.2
85°	12.8
87.5°	5.3
90°	0.0



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— 0°-180°







(END OF REPORT)