

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: P583935

Luminaire Tested: **HC815D010-HM80520935-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC815D010-HM80520935-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1503.4 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

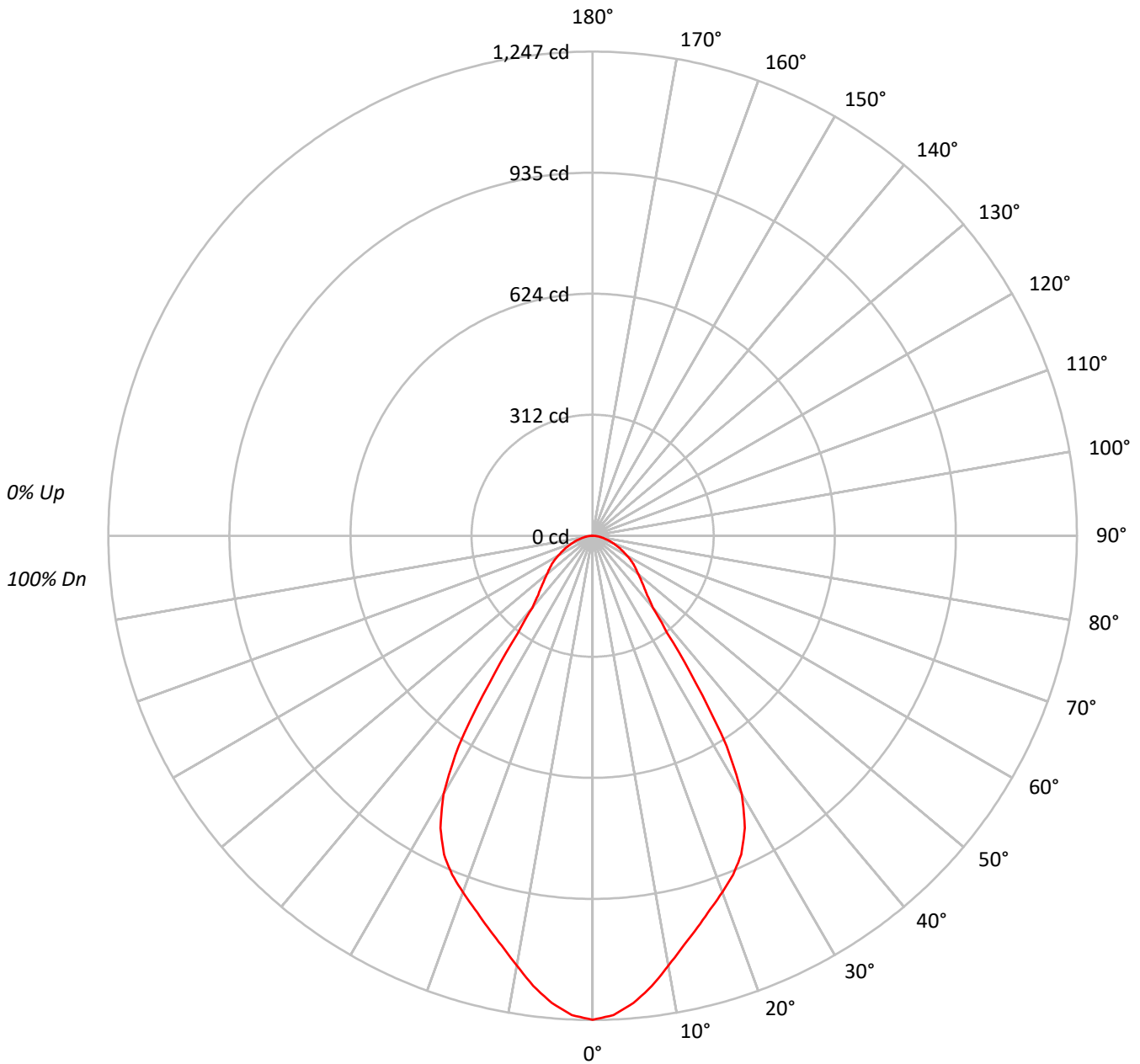
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90				90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80				80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72				72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65				65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59				59
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54				54
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50				50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46				46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43				43
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40				40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	38444
5°	37393
10°	35188
15°	33319
20°	32051
25°	30812
30°	27364
35°	17429
40°	9725
45°	8146
50°	7354
55°	6930
60°	6321
65°	5706
70°	5031
75°	4480
80°	3960
85°	3573



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.6	7.5
10°-20°	294.3	19.6
20°-30°	410.6	27.3
30°-40°	295.5	19.7
40°-50°	146.4	9.7
50°-60°	114.5	7.6
60°-70°	77.5	5.2
70°-80°	40.3	2.7
80°-90°	11.6	0.8
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°	817.6	54.4
0°-40°	1113.0	74.0
0°-60°	1374.0	91.4
0°-90°	1503.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1503.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1247	
5°	1208	113
15°	1044	294
25°	906	411
35°	463	295
45°	187	146
55°	129	115
65°	78	78
75°	38	40
85°	10	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1246.7
2.5°	1235.5
5°	1208.0
7.5°	1169.5
10°	1123.8
12.5°	1081.1
15°	1043.7
17.5°	1008.1
20°	976.7
22.5°	945.1
25°	905.6
27.5°	848.7
30°	768.5
32.5°	642.6
35°	463.0
37.5°	315.7
40°	241.6
42.5°	208.1
45°	186.8
47.5°	168.6
50°	153.3
52.5°	140.1
55°	128.9
57.5°	115.7
60°	102.5
62.5°	89.3
65°	78.2
67.5°	67.0
70°	55.8
72.5°	46.8
75°	37.6
77.5°	29.4
80°	22.3
82.5°	16.3
85°	10.1
87.5°	5.1
90°	0.0



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— 0°-180°







(END OF REPORT)