

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: P593558

Luminaire Tested: **HC815D010-HM80520850-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593558
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-HM80520850-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1759.9 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

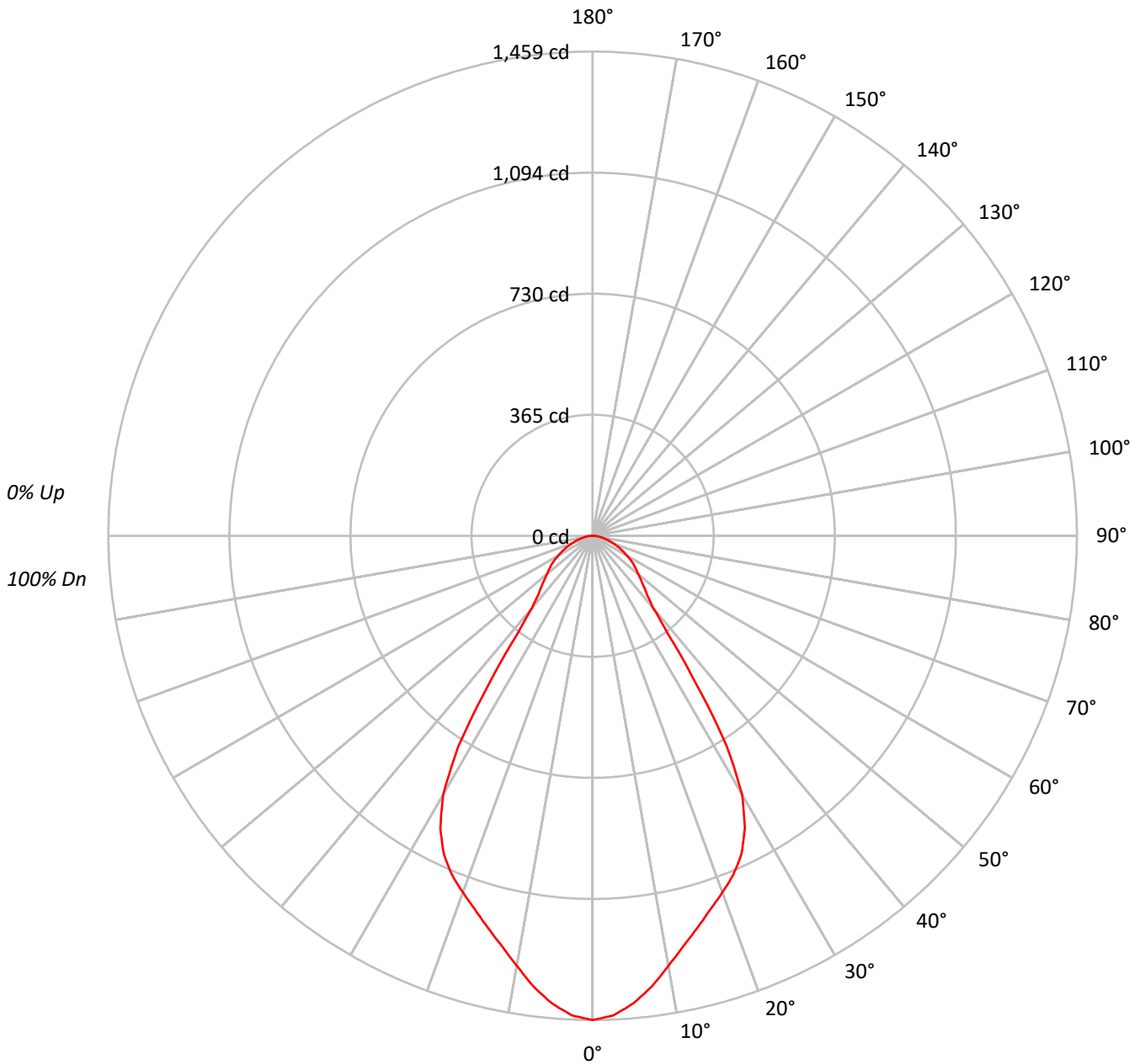
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	45003
5°	43775
10°	41194
15°	39002
20°	37518
25°	36066
30°	32035
35°	20399
40°	11384
45°	9537
50°	8606
55°	8118
60°	7401
65°	6676
70°	5887
75°	5242
80°	4635
85°	4210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	7.5
10°-20°	344.5	19.6
20°-30°	480.7	27.3
30°-40°	345.9	19.7
40°-50°	171.4	9.7
50°-60°	134.1	7.6
60°-70°	90.8	5.2
70°-80°	47.2	2.7
80°-90°	13.6	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°	957.1	54.4
0°-40°	1302.9	74.0
0°-60°	1608.4	91.4
0°-90°	1759.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1759.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1459	
5°	1414	132
15°	1222	345
25°	1060	481
35°	542	346
45°	219	171
55°	151	134
65°	92	91
75°	44	47
85°	12	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1459.4
2.5°	1446.4
5°	1414.2
7.5°	1369.1
10°	1315.6
12.5°	1265.7
15°	1221.7
17.5°	1180.1
20°	1143.3
22.5°	1106.4
25°	1060.0
27.5°	993.5
30°	899.7
32.5°	752.3
35°	541.9
37.5°	369.6
40°	282.8
42.5°	243.7
45°	218.7
47.5°	197.3
50°	179.4
52.5°	164.0
55°	151.0
57.5°	135.4
60°	120.0
62.5°	104.6
65°	91.5
67.5°	78.4
70°	65.3
72.5°	54.7
75°	44.0
77.5°	34.5
80°	26.1
82.5°	19.0
85°	11.9
87.5°	5.9
90°	0.0



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— 0°-180°







(END OF REPORT)