

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: P583833

Luminaire Tested: **HC815D010-HM80520827-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583833
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-HM80520827-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1583.2 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

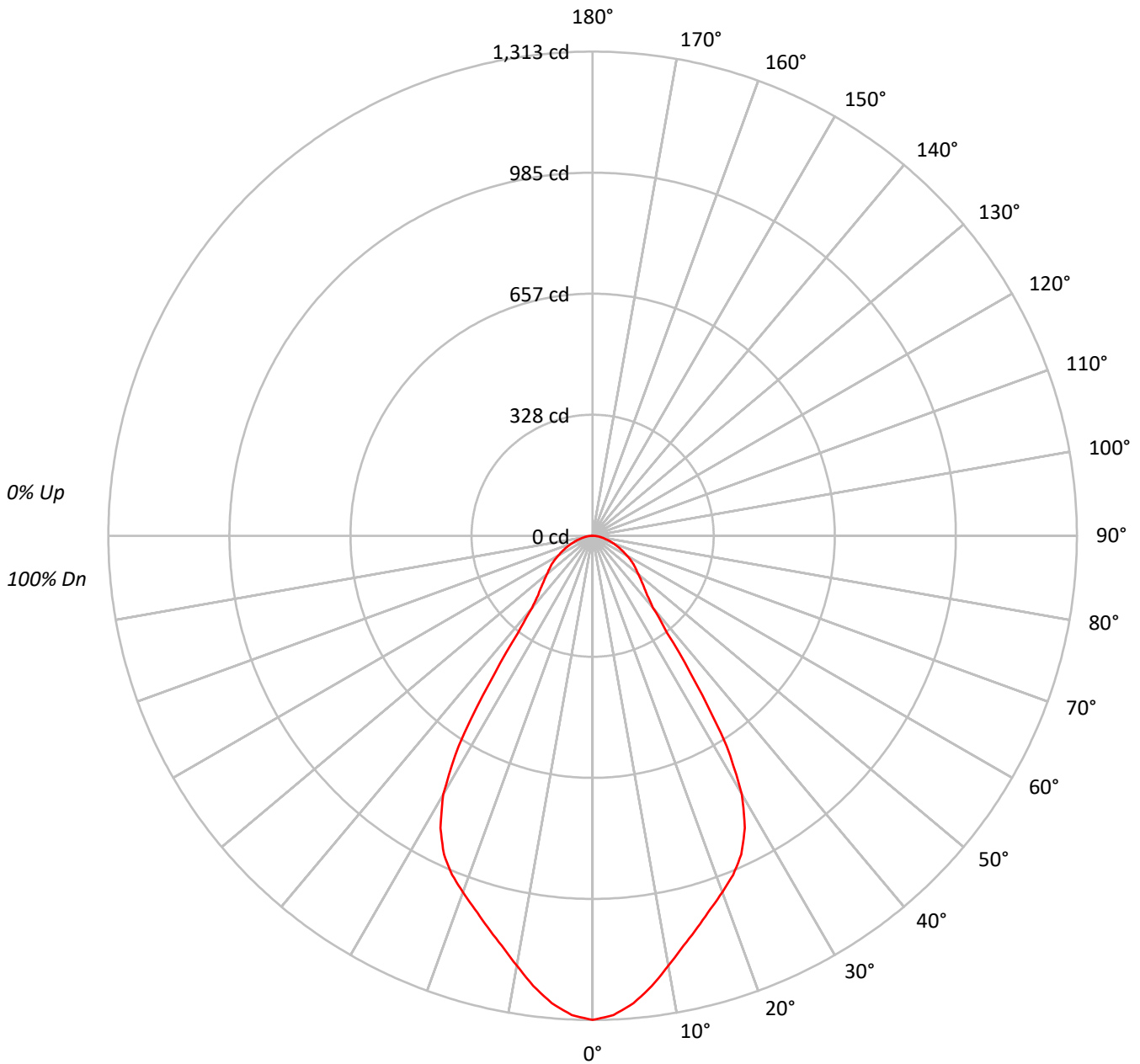
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	40482
5°	39380
10°	37055
15°	35085
20°	33751
25°	32445
30°	28817
35°	18352
40°	10245
45°	8578
50°	7748
55°	7301
60°	6661
65°	6005
70°	5301
75°	4706
80°	4173
85°	3786



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	7.5
10°-20°	309.9	19.6
20°-30°	432.4	27.3
30°-40°	311.1	19.7
40°-50°	154.2	9.7
50°-60°	120.6	7.6
60°-70°	81.7	5.2
70°-80°	42.4	2.7
80°-90°	12.2	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°	860.9	54.4
0°-40°	1172.1	74.0
0°-60°	1446.9	91.4
0°-90°	1583.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1583.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1313	
5°	1272	119
15°	1099	310
25°	954	432
35°	488	311
45°	197	154
55°	136	121
65°	82	82
75°	40	42
85°	11	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1312.8
2.5°	1301.0
5°	1272.2
7.5°	1231.5
10°	1183.4
12.5°	1138.6
15°	1099.0
17.5°	1061.6
20°	1028.5
22.5°	995.3
25°	953.6
27.5°	893.7
30°	809.3
32.5°	676.7
35°	487.5
37.5°	332.5
40°	254.5
42.5°	219.2
45°	196.7
47.5°	177.5
50°	161.5
52.5°	147.5
55°	135.8
57.5°	121.8
60°	108.0
62.5°	94.1
65°	82.3
67.5°	70.6
70°	58.8
72.5°	49.2
75°	39.5
77.5°	31.0
80°	23.5
82.5°	17.1
85°	10.7
87.5°	5.3
90°	0.0



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— 0°-180°







(END OF REPORT)