

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P584594

Luminaire Tested: **HCC8S40D010BZ-HM82555930-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584594
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: HCC8S40D010BZ-HM82555930-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

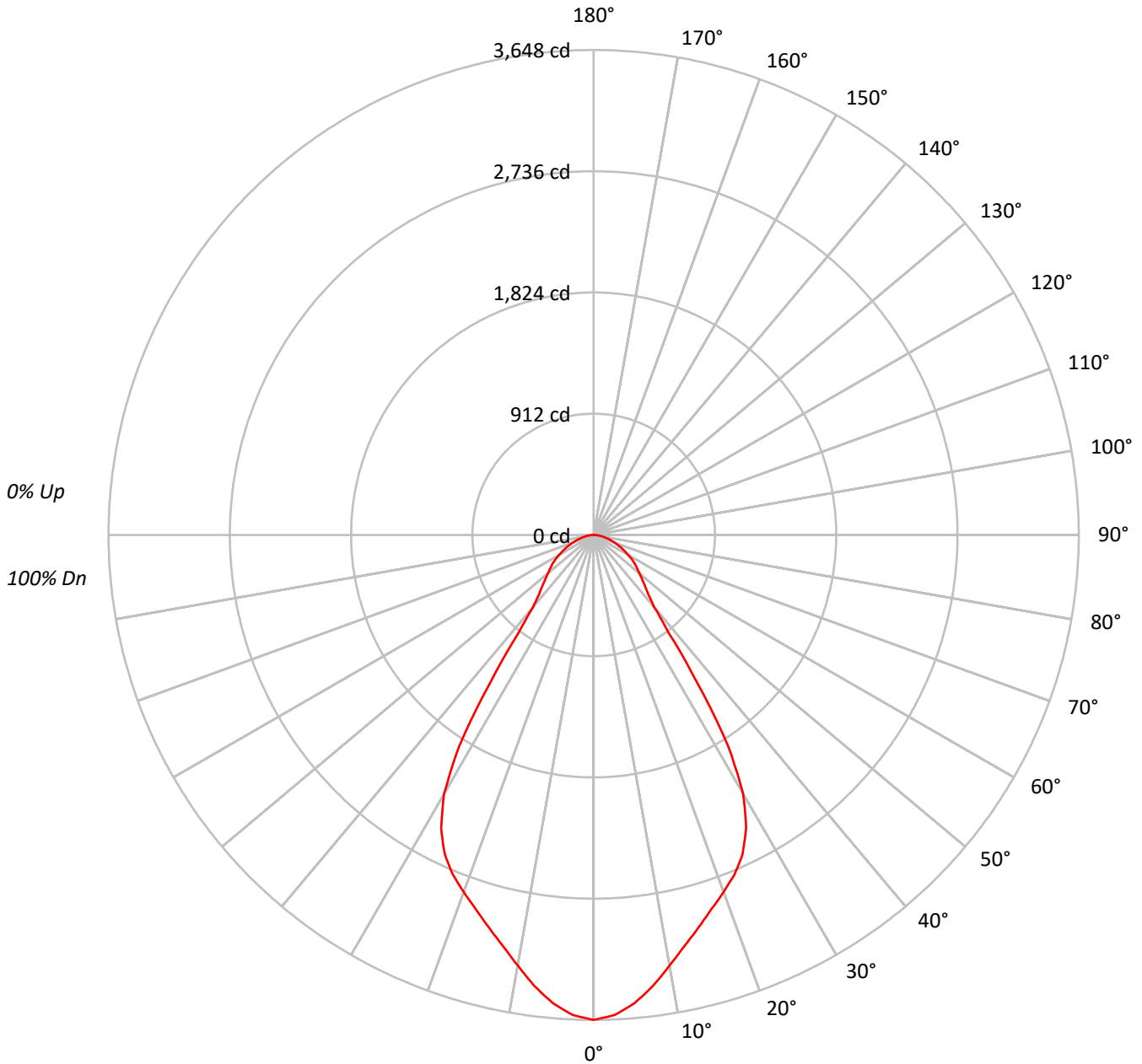
Lumens per Lamp: N/A
Luminaire Lumens: 4399.1 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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	100	102	99	97	98	96	94	94	93	92	90				
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80				
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72				
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65				
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59				
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54				
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50				
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46				
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43				
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	112485
5°	109420
10°	102963
15°	97487
20°	93776
25°	90154
30°	80065
35°	50993
40°	28460
45°	23837
50°	21516
55°	20279
60°	18502
65°	16687
70°	14732
75°	13106
80°	11596
85°	10543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.5	7.5
10°-20°	861.2	19.6
20°-30°	1201.4	27.3
30°-40°	864.5	19.7
40°-50°	428.4	9.7
50°-60°	335.2	7.6
60°-70°	226.9	5.2
70°-80°	117.9	2.7
80°-90°	34.0	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°	2392.2	54.4
0°-40°	3256.7	74.0
0°-60°	4020.3	91.4
0°-90°	4399.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4399.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3648	
5°	3535	330
15°	3054	861
25°	2650	1201
35°	1355	865
45°	547	428
55°	377	335
65°	229	227
75°	110	118
85°	30	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3647.8
2.5°	3615.1
5°	3534.9
7.5°	3422.1
10°	3288.3
12.5°	3163.6
15°	3053.7
17.5°	2949.8
20°	2857.7
22.5°	2765.6
25°	2649.7
27.5°	2483.3
30°	2248.6
32.5°	1880.3
35°	1354.6
37.5°	923.8
40°	707.0
42.5°	608.9
45°	546.6
47.5°	493.1
50°	448.5
52.5°	410.0
55°	377.2
57.5°	338.7
60°	300.0
62.5°	261.4
65°	228.7
67.5°	196.1
70°	163.4
72.5°	136.6
75°	110.0
77.5°	86.2
80°	65.3
82.5°	47.5
85°	29.8
87.5°	14.9
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)