

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: P584271

Luminaire Tested: **HCC8S30D010BZ-HM82555835-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584271
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: HCC8S30D010BZ-HM82555835-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

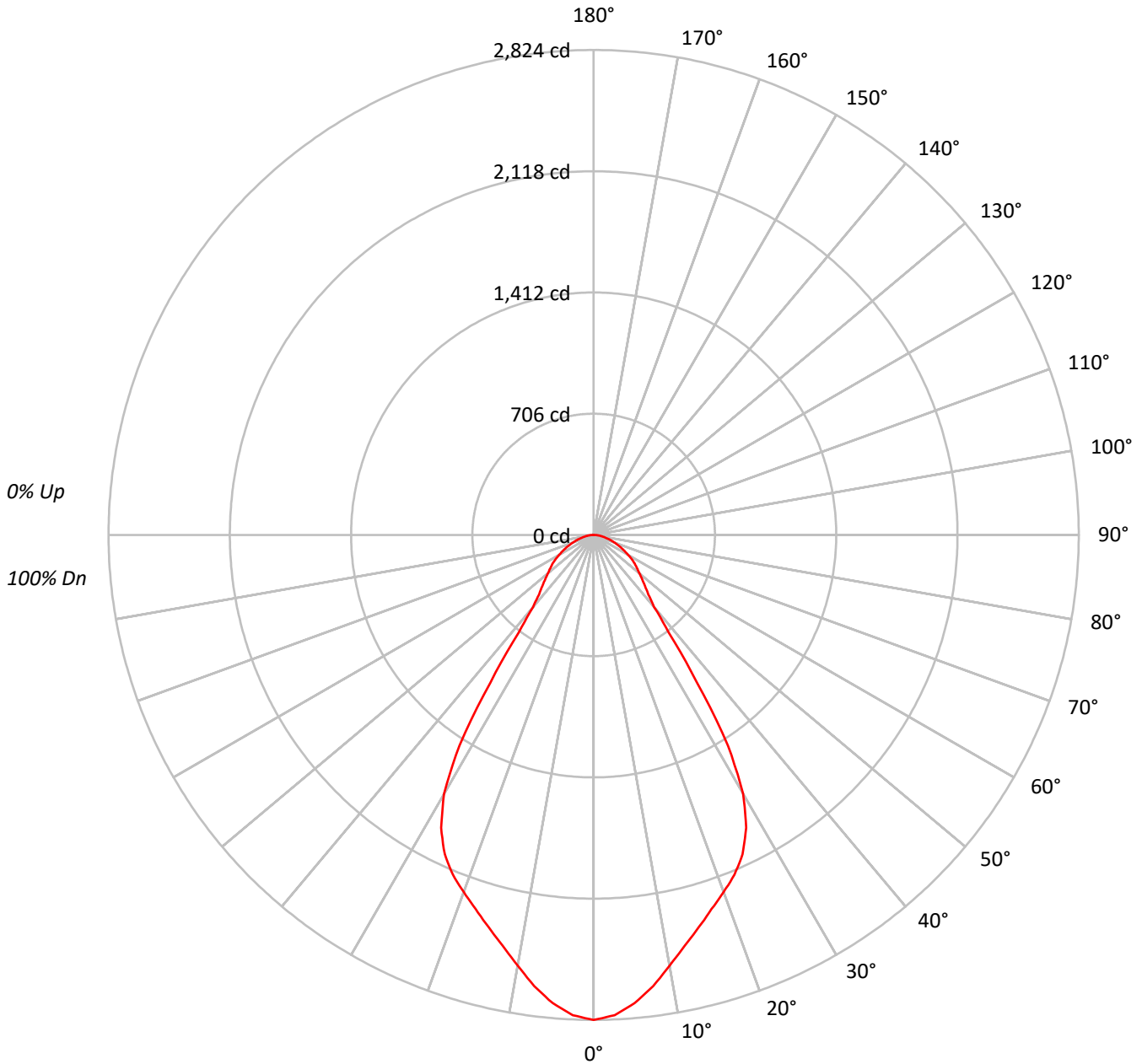
Lumens per Lamp: N/A
Luminaire Lumens: 3406.1 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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			
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°	87094
5°	84721
10°	79724
15°	75481
20°	72607
25°	69804
30°	61995
35°	39481
40°	22035
45°	18455
50°	16661
55°	15704
60°	14327
65°	12915
70°	11405
75°	10139
80°	9003
85°	8102



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.2	7.5
10°-20°	666.8	19.6
20°-30°	930.3	27.3
30°-40°	669.4	19.7
40°-50°	331.7	9.7
50°-60°	259.5	7.6
60°-70°	175.7	5.2
70°-80°	91.3	2.7
80°-90°	26.3	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°	1852.2	54.4
0°-40°	2521.6	74.0
0°-60°	3112.9	91.4
0°-90°	3406.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3406.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2824	
5°	2737	255
15°	2364	667
25°	2052	930
35°	1049	669
45°	423	332
55°	292	260
65°	177	176
75°	85	91
85°	23	26
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2824.4
2.5°	2799.1
5°	2737.0
7.5°	2649.6
10°	2546.1
12.5°	2449.5
15°	2364.4
17.5°	2283.8
20°	2212.6
22.5°	2141.3
25°	2051.6
27.5°	1922.9
30°	1741.1
32.5°	1455.9
35°	1048.8
37.5°	715.3
40°	547.4
42.5°	471.6
45°	423.2
47.5°	381.8
50°	347.3
52.5°	317.3
55°	292.1
57.5°	262.2
60°	232.3
62.5°	202.4
65°	177.0
67.5°	151.8
70°	126.5
72.5°	105.8
75°	85.1
77.5°	66.7
80°	50.7
82.5°	36.9
85°	22.9
87.5°	11.5
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)