

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: P584866

Luminaire Tested: **HCC8S50D010BZ-HM82555930-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584866
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: HCC8S50D010BZ-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

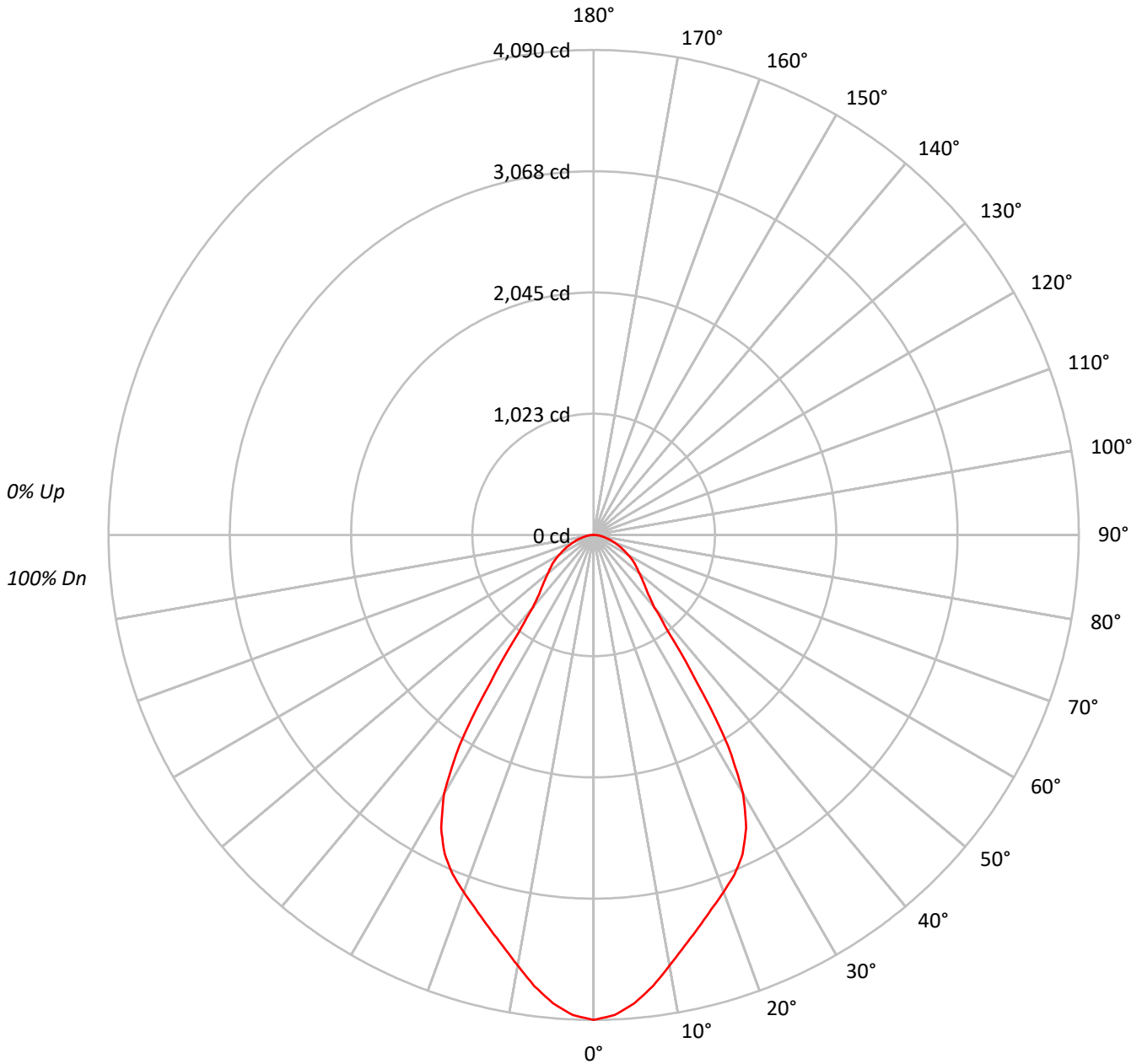
Lumens per Lamp: N/A
Luminaire Lumens: 4932.5 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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°	126124
5°	122687
10°	115451
15°	109308
20°	105144
25°	101086
30°	89775
35°	57174
40°	31909
45°	26728
50°	24126
55°	22736
60°	20747
65°	18716
70°	16517
75°	14678
80°	13017
85°	11782



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.5	7.5
10°-20°	965.6	19.6
20°-30°	1347.1	27.3
30°-40°	969.3	19.7
40°-50°	480.4	9.7
50°-60°	375.8	7.6
60°-70°	254.4	5.2
70°-80°	132.2	2.7
80°-90°	38.0	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°	2682.3	54.4
0°-40°	3651.6	74.0
0°-60°	4507.8	91.4
0°-90°	4932.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4932.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4090	
5°	3964	370
15°	3424	966
25°	2971	1347
35°	1519	969
45°	613	480
55°	423	376
65°	256	254
75°	123	132
85°	33	38
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4090.1
2.5°	4053.5
5°	3963.5
7.5°	3837.0
10°	3687.1
12.5°	3547.2
15°	3424.0
17.5°	3307.5
20°	3204.1
22.5°	3100.9
25°	2971.0
27.5°	2784.4
30°	2521.3
32.5°	2108.3
35°	1518.8
37.5°	1035.9
40°	792.7
42.5°	682.8
45°	612.9
47.5°	552.9
50°	502.9
52.5°	459.7
55°	422.9
57.5°	379.7
60°	336.4
62.5°	293.1
65°	256.5
67.5°	219.8
70°	183.2
72.5°	153.3
75°	123.2
77.5°	96.6
80°	73.3
82.5°	53.3
85°	33.3
87.5°	16.6
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)