

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: P584790

Luminaire Tested: **HCC8W50D010BZ-HM82555827-81WDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W50D010BZ-HM82555827-81WDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

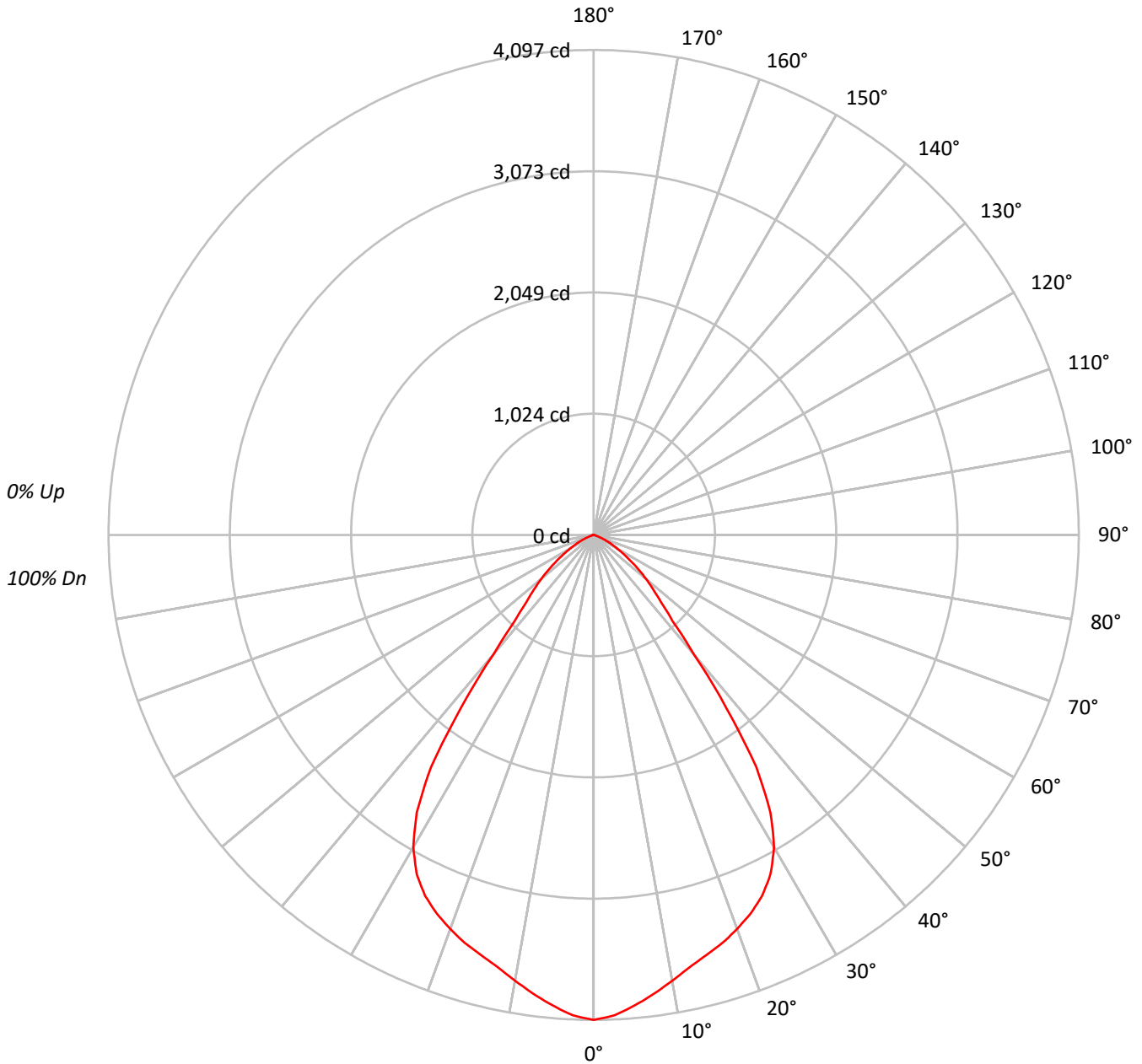
Lumens per Lamp: N/A
Luminaire Lumens: 5518.9 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68		
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62		
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57		
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52		
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48		
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44		
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	126346
5°	123501
10°	119715
15°	117292
20°	116242
25°	114501
30°	108465
35°	90116
40°	53071
45°	35101
50°	27632
55°	20333
60°	14123
65°	8610
70°	3751
75°	1656
80°	1225
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.7	6.8
10°-20°	1038.7	18.8
20°-30°	1538.9	27.9
30°-40°	1422.0	25.8
40°-50°	655.7	11.9
50°-60°	344.9	6.2
60°-70°	121.9	2.2
70°-80°	19.1	0.3
80°-90°	1.9	0.0
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°	2953.4	53.5
0°-40°	4375.4	79.3
0°-60°	5375.9	97.4
0°-90°	5518.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5518.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4097	
5°	3990	376
15°	3674	1039
25°	3365	1539
35°	2394	1422
45°	805	656
55°	378	345
65°	118	122
75°	14	19
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4097.3
2.5°	4062.6
5°	3989.8
7.5°	3910.1
10°	3823.3
12.5°	3740.0
15°	3674.1
17.5°	3615.1
20°	3542.3
22.5°	3462.5
25°	3365.3
27.5°	3233.5
30°	3046.2
32.5°	2778.9
35°	2393.9
37.5°	1838.8
40°	1318.4
42.5°	988.7
45°	804.9
47.5°	683.5
50°	576.0
52.5°	471.8
55°	378.2
57.5°	298.3
60°	229.0
62.5°	173.5
65°	118.0
67.5°	69.4
70°	41.6
72.5°	24.3
75°	13.9
77.5°	10.4
80°	6.9
82.5°	3.5
85°	0.0
87.5°	0.0
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)