

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: P584824

Luminaire Tested: **HCC8S50D010MB-HM82555835-81WDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584824
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: HCC8S50D010MB-HM82555835-81WDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

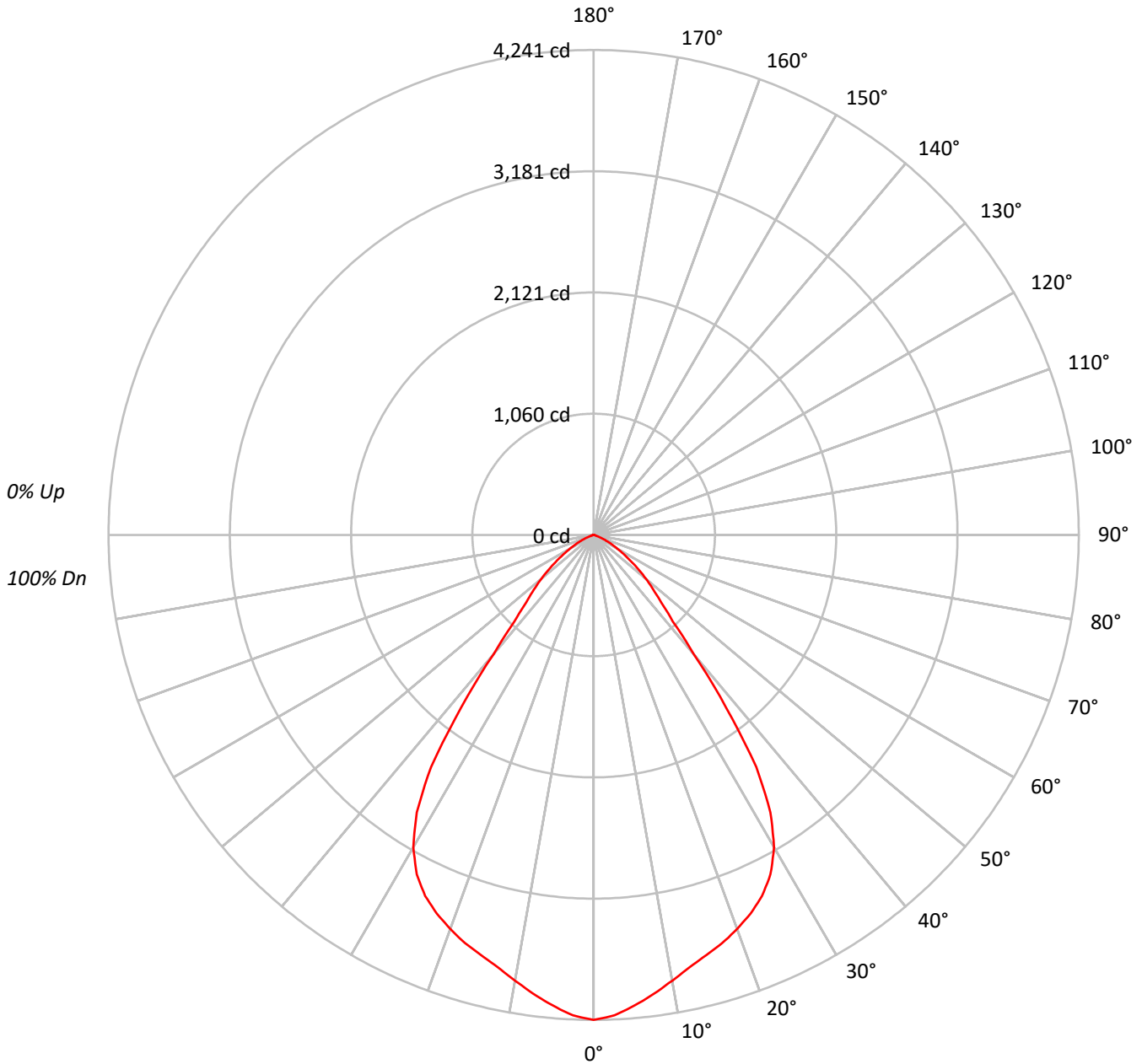
Lumens per Lamp: N/A
Luminaire Lumens: 5712.7 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 48
Input Voltage (V): NR
Input Current (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									20								
RC	80									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	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	100	100	100	100	100	100	100	100	100	100																						
	1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92																					
	2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83																					
	3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75																				
	4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68																				
	5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62																				
	6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57																				
	7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52																				
	8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48																			
	9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44																			
	10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	130783
5°	127840
10°	123917
15°	121411
20°	120324
25°	118523
30°	112272
35°	93279
40°	54935
45°	36331
50°	28601
55°	21048
60°	14623
65°	8916
70°	3886
75°	1716
80°	1261
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.9	6.8
10°-20°	1075.2	18.8
20°-30°	1593.0	27.9
30°-40°	1472.0	25.8
40°-50°	678.7	11.9
50°-60°	357.0	6.2
60°-70°	126.2	2.2
70°-80°	19.8	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°	3057.1	53.5
0°-40°	4529.1	79.3
0°-60°	5564.8	97.4
0°-90°	5712.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5712.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4241	
5°	4130	389
15°	3803	1075
25°	3484	1593
35°	2478	1472
45°	833	679
55°	392	357
65°	122	126
75°	14	20
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4241.2
2.5°	4205.4
5°	4130.0
7.5°	4047.3
10°	3957.5
12.5°	3871.4
15°	3803.1
17.5°	3742.1
20°	3666.7
22.5°	3584.0
25°	3483.5
27.5°	3347.1
30°	3153.1
32.5°	2876.6
35°	2477.9
37.5°	1903.4
40°	1364.7
42.5°	1023.5
45°	833.1
47.5°	707.5
50°	596.2
52.5°	488.4
55°	391.5
57.5°	308.8
60°	237.1
62.5°	179.6
65°	122.2
67.5°	71.8
70°	43.1
72.5°	25.1
75°	14.4
77.5°	10.8
80°	7.1
82.5°	3.6
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)