

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: P584987

Luminaire Tested: **HCC8S55D010MB-HM82555927-81NDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584987  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S55D010MB-HM82555927-81NDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

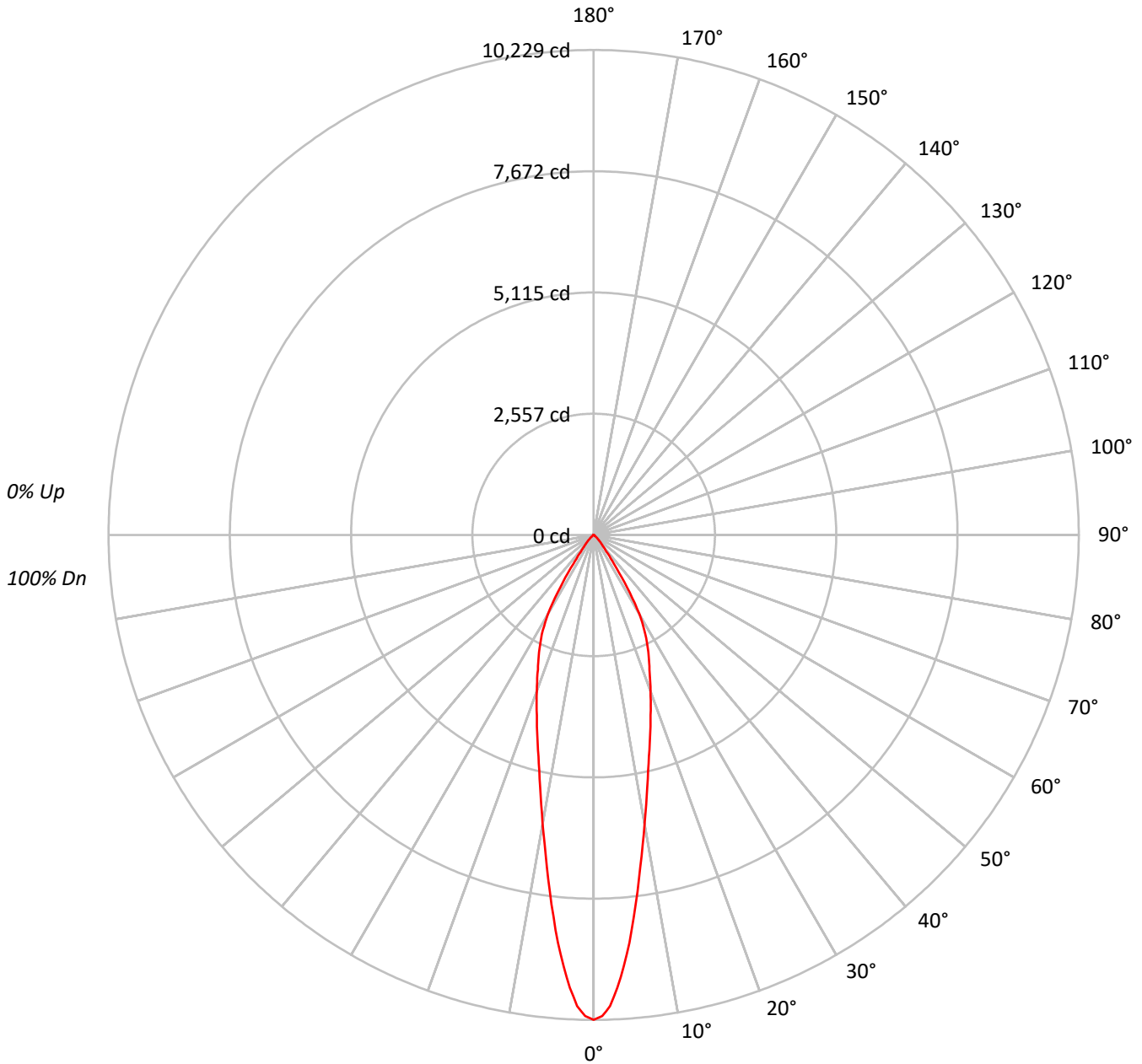
Lumens per Lamp: N/A  
Luminaire Lumens: 3963.9 lumens  
Efficiency: N/A  
Efficacy: 76.2 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 52  
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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	112	109	107	112	109	107	106	105	104	102		102	100	99		98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94	92	91	89
3	104	99	94	91	102	97	93	90	95	91	88		92	90	87		90	88	86	84
4	100	93	88	84	98	92	87	84	90	86	83		88	85	82		86	83	81	80
5	96	88	83	79	94	87	82	79	86	81	78		84	80	77		82	79	77	75
6	92	84	78	75	90	83	78	74	81	77	74		80	76	73		79	76	73	72
7	88	80	74	70	87	79	74	70	78	73	70		77	73	70		76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	66		73	69	66		72	69	66	65
9	81	72	67	64	80	72	67	63	71	66	63		70	66	63		69	66	63	62
10	78	69	64	61	77	69	64	61	68	63	60		67	63	60		67	63	60	59

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	315415
5°	267227
10°	193884
15°	145599
20°	114883
25°	92668
30°	68668
35°	27823
40°	11734
45°	6293
50°	2821
55°	1425
60°	913
65°	642
70°	532
75°	346
80°	515
85°	1026



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	741.2	18.7
10°-20°	1281.0	32.3
20°-30°	1238.5	31.2
30°-40°	544.0	13.7
40°-50°	117.6	3.0
50°-60°	26.4	0.7
60°-70°	9.1	0.2
70°-80°	3.5	0.1
80°-90°	2.8	0.1
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°	3260.7	82.3
0°-40°	3804.7	96.0
0°-60°	3948.7	99.6
0°-90°	3963.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3963.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10229	
5°	8633	741
15°	4561	1281
25°	2724	1239
35°	739	544
45°	144	118
55°	26	26
65°	9	9
75°	3	3
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10228.7
1°	10152.2
2°	9943.2
3°	9566.3
4°	9115.8
5°	8633.0
6°	8105.9
7°	7575.9
8°	7078.3
9°	6616.1
10°	6192.0
11°	5791.6
12°	5432.3
13°	5105.6
14°	4817.0
15°	4560.8
17.5°	3986.7
20°	3500.9
22.5°	3073.9
25°	2723.6
27.5°	2367.3
30°	1928.5
32.5°	1310.3
35°	739.1
37.5°	435.7
40°	291.5
42.5°	206.2
45°	144.3
47.5°	94.2
50°	58.8
52.5°	35.3
55°	26.5
57.5°	20.6
60°	14.8
62.5°	11.7
65°	8.8
67.5°	5.9
70°	5.9
72.5°	2.9
75°	2.9
77.5°	2.9
80°	2.9
82.5°	2.9

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**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0

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Report Generated By 670245859 / DESKTOP-T8S5UU9



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— 0°-180°

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85°		2.9
87.5°		2.9

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(END OF REPORT)