

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: P593777

Luminaire Tested: **HCC8S45D010BZ-HM82555950-81NDC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593777  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S45D010BZ-HM82555950-81NDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

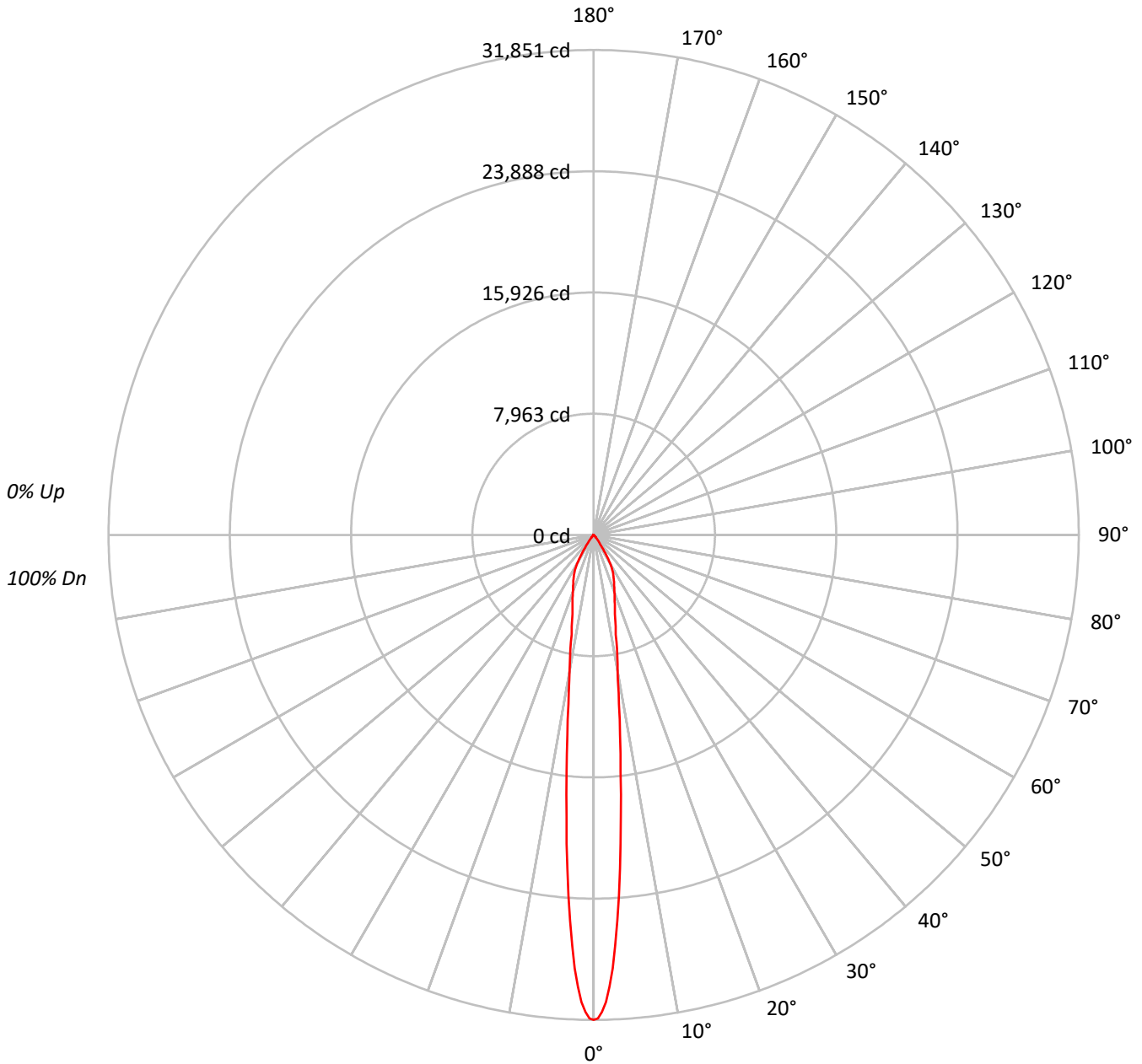
Lumens per Lamp: N/A  
Luminaire Lumens: 5218.1 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96				
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91				
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87				
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83				
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80				
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76				
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73				
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71				
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68				
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66				

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

	0°
0°	982161
5°	629978
10°	284582
15°	171710
20°	130851
25°	105665
30°	77430
35°	28041
40°	10462
45°	4749
50°	1521
55°	376
60°	216
65°	255
70°	0
75°	0
80°	622
85°	1238



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1552.2	29.7
10°-20°	1576.6	30.2
20°-30°	1411.3	27.0
30°-40°	568.5	10.9
40°-50°	93.2	1.8
50°-60°	8.5	0.2
60°-70°	3.0	0.1
70°-80°	2.3	0.0
80°-90°	3.3	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°	4540.1	87.0
0°-40°	5108.6	97.9
0°-60°	5210.3	99.9
0°-90°	5219.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5218.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	31851	
5°	20352	###
15°	5379	1577
25°	3106	1411
35°	745	568
45°	109	93
55°	7	8
65°	4	3
75°	0	2
85°	4	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	31850.8
0.5°	31752.4
1°	31341.4
1.5°	30680.9
2°	29679.6
2.5°	28495.7
3°	27013.1
3.5°	25386.5
4°	23777.4
4.5°	21975.1
5°	20352.0
5.5°	18584.9
6°	17151.5
6.5°	15658.4
7°	14485.0
7.5°	13244.8
8°	12247.1
8.5°	11245.8
9°	10494.0
9.5°	9664.8
10°	9088.6
12.5°	6703.2
15°	5378.7
17.5°	4595.2
20°	3987.5
22.5°	3502.7
25°	3105.6
27.5°	2708.7
30°	2174.6
32.5°	1398.2
35°	744.9
37.5°	411.0
40°	259.9
42.5°	172.2
45°	108.9
47.5°	66.7
50°	31.7
52.5°	10.6
55°	7.0
57.5°	3.5
60°	3.5
62.5°	3.5
65°	3.5



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**CANDELA DISTRIBUTION (continued):**

	0°
72.5°	0.0
75°	0.0
77.5°	3.5
80°	3.5
82.5°	3.5
85°	3.5
87.5°	3.5
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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67.5°		3.5
70°		0.0

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(END OF REPORT)