

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: P584238

Luminaire Tested: **HCC8S30D010MB-HM82555827-81NDC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584238  
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: HCC8S30D010MB-HM82555827-81NDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

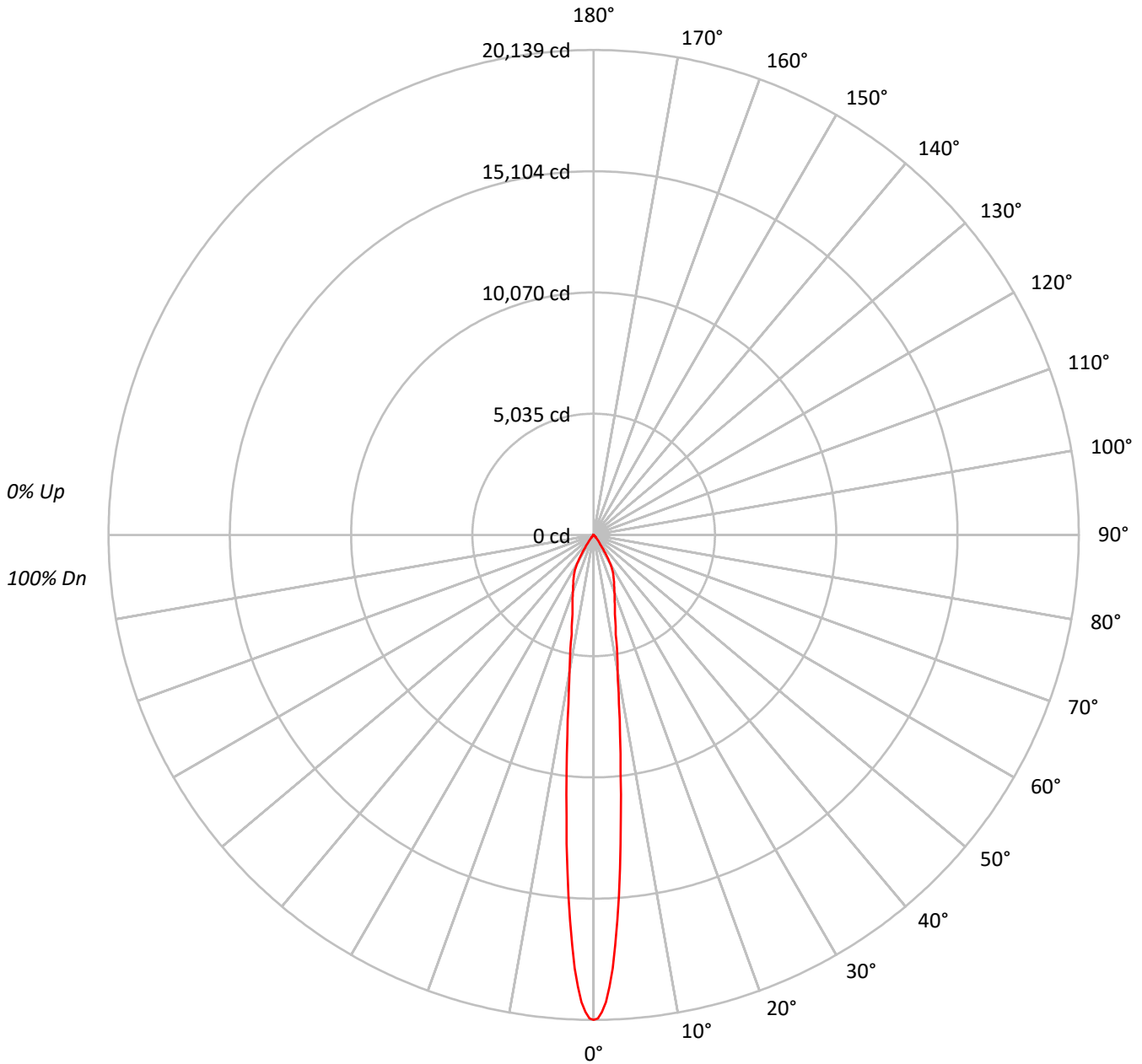
Lumens per Lamp: N/A  
Luminaire Lumens: 3299.6 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
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									
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	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	106	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°	621013
5°	398330
10°	179941
15°	108571
20°	82737
25°	66817
30°	48963
35°	17730
40°	6618
45°	3000
50°	959
55°	237
60°	142
65°	168
70°	0
75°	0
80°	408
85°	814



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	981.5	29.7
10°-20°	996.9	30.2
20°-30°	892.4	27.0
30°-40°	359.5	10.9
40°-50°	58.9	1.8
50°-60°	5.4	0.2
60°-70°	2.0	0.1
70°-80°	1.5	0.0
80°-90°	2.2	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°	2870.7	87.0
0°-40°	3230.2	97.9
0°-60°	3294.5	99.8
0°-90°	3300.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3299.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	20139	
5°	12868	981
15°	3401	997
25°	1964	892
35°	471	359
45°	69	59
55°	4	5
65°	2	2
75°	0	2
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	20139.0
0.5°	20076.9
1°	19816.9
1.5°	19399.4
2°	18766.2
2.5°	18017.6
3°	17080.2
3.5°	16051.7
4°	15034.3
4.5°	13894.8
5°	12868.4
5.5°	11751.1
6°	10844.8
6.5°	9900.7
7°	9158.7
7.5°	8374.6
8°	7743.7
8.5°	7110.7
9°	6635.2
9.5°	6111.0
10°	5746.7
12.5°	4238.4
15°	3400.9
17.5°	2905.6
20°	2521.3
22.5°	2214.8
25°	1963.8
27.5°	1712.6
30°	1375.1
32.5°	884.1
35°	471.0
37.5°	259.9
40°	164.4
42.5°	108.8
45°	68.8
47.5°	42.2
50°	20.0
52.5°	6.7
55°	4.4
57.5°	2.3
60°	2.3
62.5°	2.3
65°	2.3



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**CANDELA DISTRIBUTION (continued):**

	0°
72.5°	0.0
75°	0.0
77.5°	2.3
80°	2.3
82.5°	2.3
85°	2.3
87.5°	2.3
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°		2.3
70°		0.0

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(END OF REPORT)