

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: P584240

Luminaire Tested: **HCC8S30D010SL-HM82555827-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584240  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S30D010SL-HM82555827-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

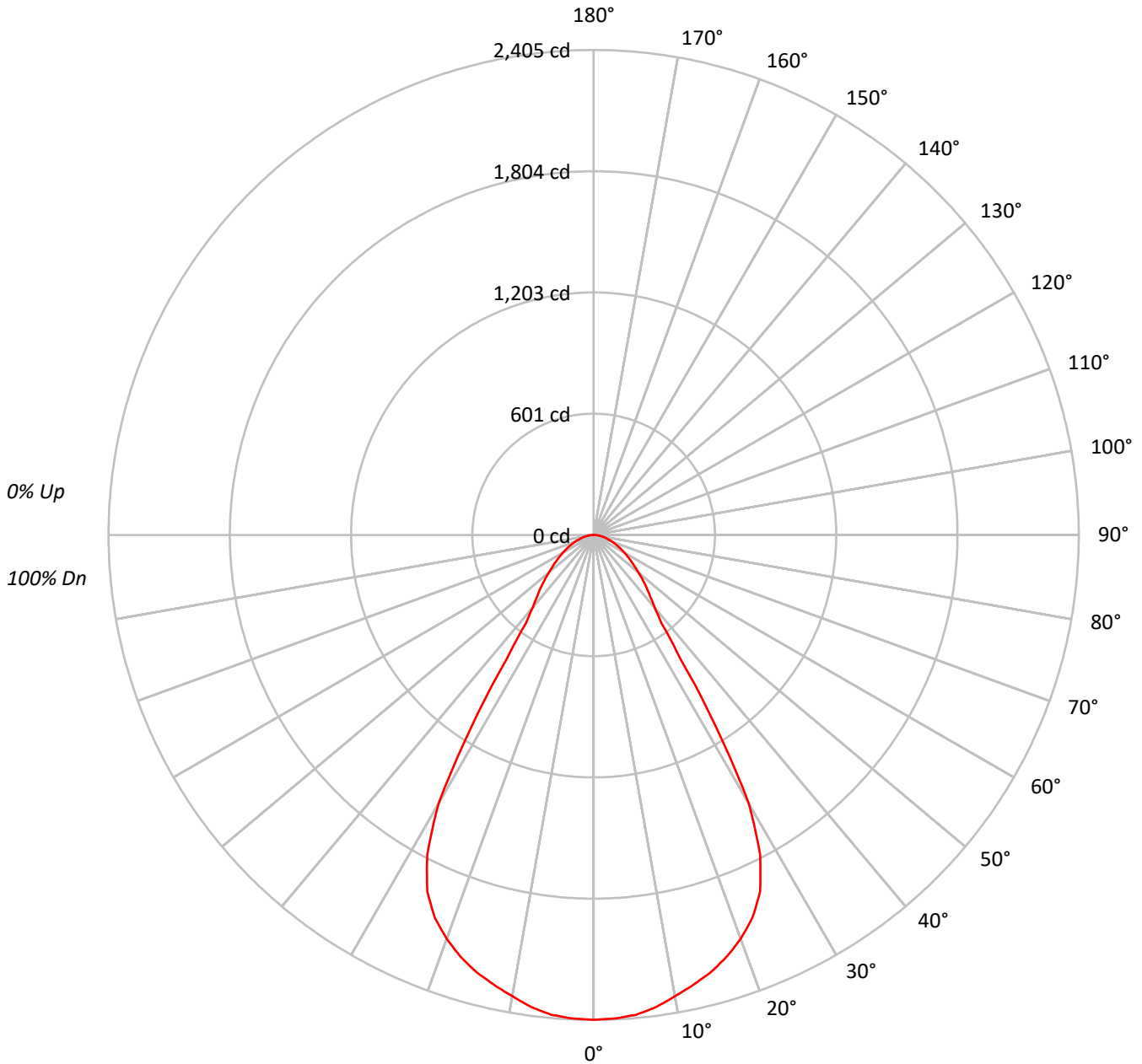
Lumens per Lamp: N/A  
Luminaire Lumens: 2975.0 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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				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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			

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

	0°
0°	74155
5°	73956
10°	72725
15°	71660
20°	69943
25°	66395
30°	54763
35°	28195
40°	18875
45°	16188
50°	13970
55°	12188
60°	10830
65°	9734
70°	8809
75°	7947
80°	7103
85°	7076



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.9	7.6
10°-20°	631.6	21.2
20°-30°	875.1	29.4
30°-40°	525.6	17.7
40°-50°	287.7	9.7
50°-60°	204.4	6.9
60°-70°	132.7	4.5
70°-80°	70.9	2.4
80°-90°	21.2	0.7
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°	1732.5	58.2
0°-40°	2258.1	75.9
0°-60°	2750.2	92.4
0°-90°	2975.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2975.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2405	
5°	2389	226
15°	2245	632
25°	1951	875
35°	749	526
45°	371	288
55°	227	204
65°	133	133
75°	67	71
85°	20	21
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2404.8
2.5°	2400.4
5°	2389.2
7.5°	2362.5
10°	2322.6
12.5°	2284.8
15°	2244.7
17.5°	2193.6
20°	2131.4
22.5°	2055.8
25°	1951.4
27.5°	1786.9
30°	1538.0
32.5°	1126.8
35°	749.0
37.5°	553.4
40°	468.9
42.5°	415.6
45°	371.2
47.5°	328.9
50°	291.2
52.5°	255.6
55°	226.7
57.5°	200.0
60°	175.6
62.5°	153.4
65°	133.4
67.5°	113.3
70°	97.7
72.5°	80.0
75°	66.7
77.5°	53.4
80°	40.0
82.5°	28.9
85°	20.0
87.5°	8.9
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)