

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: P580352

Luminaire Tested: **HCC4S30D010MW-HM43040930-41NDC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580352  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S30D010MW-HM43040930-41NDC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

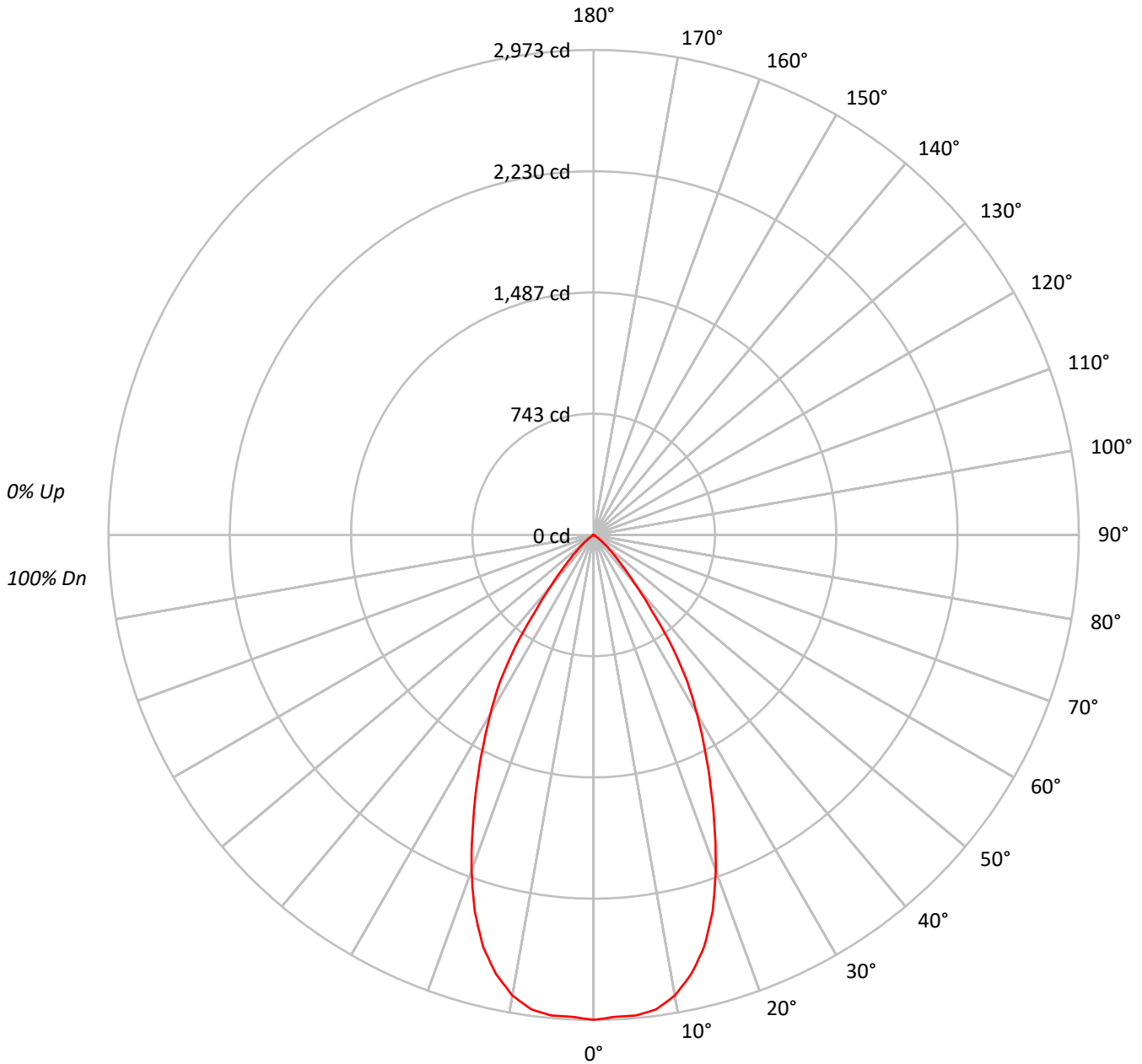
Lumens per Lamp: N/A  
Luminaire Lumens: 2489.4 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94		
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87		
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81		
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76		
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71		
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66		
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62		
8	80	70	64	60	78	70	64	60	69	64	60	68	63	60	67	62	59	58		
9	76	66	61	57	75	66	60	57	65	60	56	64	59	56	63	59	56	55		
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	51		

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

	0°
0°	366657
5°	366188
10°	359050
15°	333863
20°	287122
25°	230657
30°	180085
35°	126078
40°	64696
45°	32846
50°	16445
55°	6129
60°	2467
65°	1985
70°	1226
75°	810
80°	1208
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.6	11.2
10°-20°	721.7	29.0
20°-30°	777.5	31.2
30°-40°	510.8	20.5
40°-50°	158.8	6.4
50°-60°	31.1	1.3
60°-70°	6.7	0.3
70°-80°	2.5	0.1
80°-90°	0.7	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°	1778.8	71.5
0°-40°	2289.6	92.0
0°-60°	2479.5	99.6
0°-90°	2489.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2489.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2973	
5°	2958	280
15°	2614	722
25°	1695	777
35°	837	511
45°	188	159
55°	28	31
65°	7	7
75°	2	2
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2972.6
2.5°	2957.5
5°	2957.5
7.5°	2933.9
10°	2866.7
12.5°	2759.1
15°	2614.5
17.5°	2421.1
20°	2187.4
22.5°	1935.2
25°	1694.8
27.5°	1471.1
30°	1264.4
32.5°	1069.3
35°	837.3
37.5°	583.4
40°	401.8
42.5°	277.4
45°	188.3
47.5°	127.8
50°	85.7
52.5°	53.8
55°	28.5
57.5°	11.7
60°	10.0
62.5°	8.5
65°	6.8
67.5°	5.1
70°	3.4
72.5°	3.4
75°	1.7
77.5°	1.7
80°	1.7
82.5°	1.7
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)