

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: P580303

Luminaire Tested: **HCC4S30D010MW-HM43040835-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580303  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S30D010MW-HM43040835-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

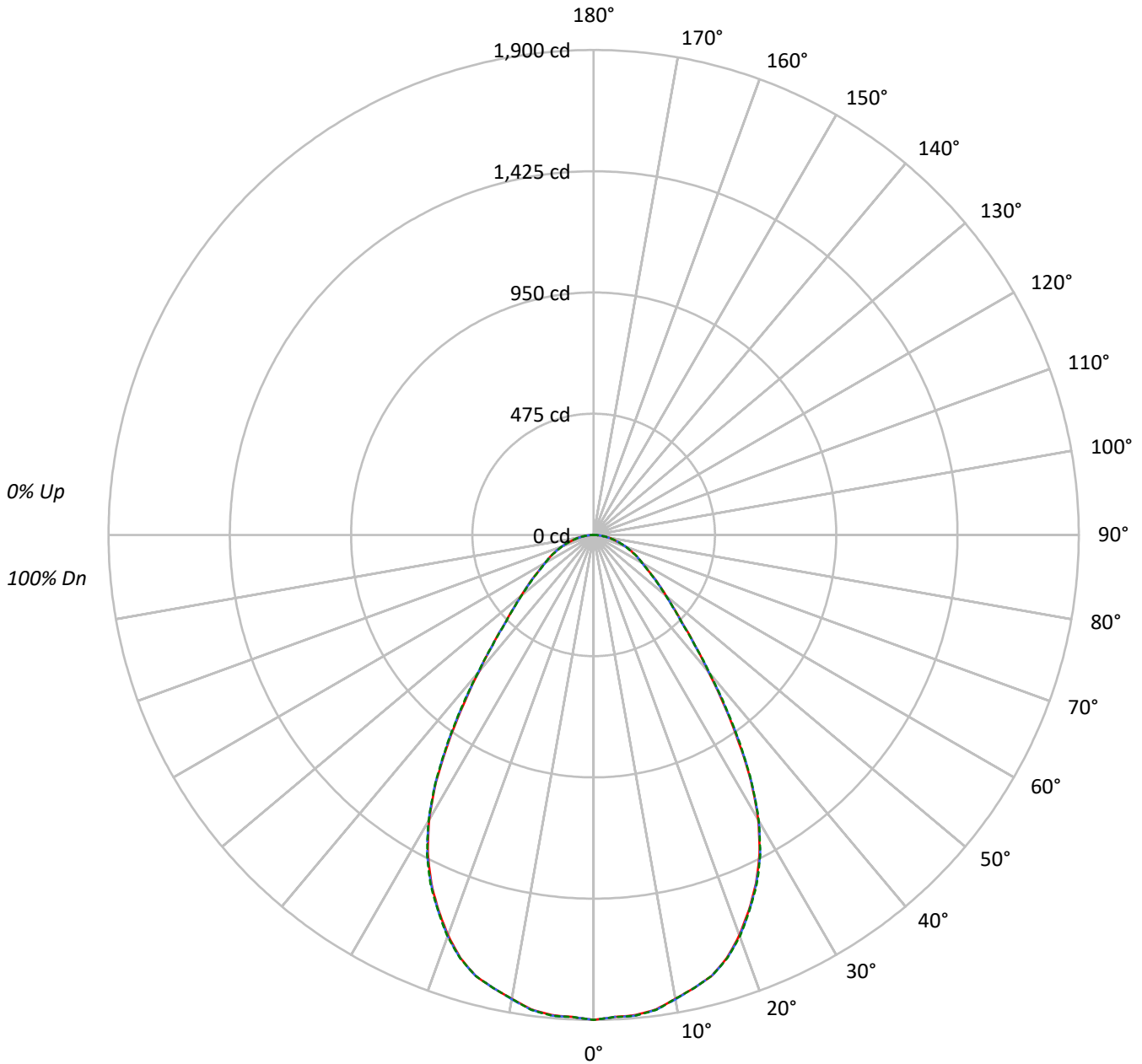
Lumens per Lamp: N/A  
Luminaire Lumens: 2931.9 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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										
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89								
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78								
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69								
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62								
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56								
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51								
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46								
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42								
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39								
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36								

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

	0°	45°	90°
0°	234381	234381	234381
5°	233828	234063	234063
10°	231108	231359	231108
15°	228335	228335	228335
20°	218971	219483	219745
25°	204812	205084	205601
30°	183518	184087	184087
35°	148996	150186	150472
40°	112438	113082	113388
45°	86120	85788	85788
50°	70981	70578	70578
55°	60901	60493	60493
60°	54346	53877	53877
65°	51105	51105	51105
70°	47532	47532	47532
75°	43130	44083	43130
80°	40559	39068	40559
85°	33399	33399	33399



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.0	6.1
10°-20°	501.0	17.1
20°-30°	688.5	23.5
30°-40°	619.1	21.1
40°-50°	391.1	13.3
50°-60°	255.4	8.7
60°-70°	173.0	5.9
70°-80°	97.4	3.3
80°-90°	27.4	0.9
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°	1368.6	46.7
0°-40°	1987.6	67.8
0°-60°	2634.1	89.8
0°-90°	2931.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2931.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1900	1900	1900	1900	1900	
5°	1888	1888	1890	1890	1890	179
15°	1788	1788	1788	1788	1788	501
25°	1505	1507	1507	1511	1511	687
35°	990	993	997	1001	999	616
45°	494	492	492	492	492	392
55°	283	283	281	283	281	256
65°	175	175	175	175	175	173
75°	90	92	92	92	90	97
85°	24	24	24	24	24	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1900.2	1900.2	1900.2	1900.2	1900.2
2.5°	1890.4	1890.4	1890.4	1890.4	1890.4
5°	1888.5	1888.5	1890.4	1890.4	1890.4
7.5°	1874.7	1876.7	1876.7	1876.7	1876.7
10°	1845.2	1845.2	1847.2	1847.2	1845.2
12.5°	1817.7	1817.7	1817.7	1819.6	1817.7
15°	1788.1	1788.1	1788.1	1788.1	1788.1
17.5°	1737.0	1738.9	1738.9	1738.9	1738.9
20°	1668.2	1672.1	1672.1	1674.1	1674.1
22.5°	1589.5	1591.4	1593.4	1595.3	1593.4
25°	1504.9	1506.9	1506.9	1510.7	1510.7
27.5°	1406.5	1408.5	1412.5	1412.5	1412.5
30°	1288.5	1290.4	1292.5	1292.5	1292.5
32.5°	1148.9	1148.9	1152.8	1154.7	1152.8
35°	989.5	993.4	997.4	1001.3	999.3
37.5°	838.0	841.9	844.0	844.0	845.9
40°	698.3	702.3	702.3	706.2	704.2
42.5°	588.1	586.2	586.2	590.2	588.1
45°	493.7	491.8	491.8	491.8	491.8
47.5°	424.9	422.9	422.9	422.9	422.9
50°	369.9	367.8	367.8	367.8	367.8
52.5°	324.6	322.6	322.6	322.6	320.7
55°	283.2	283.2	281.3	283.2	281.3
57.5°	245.9	245.9	245.9	245.9	245.9
60°	220.3	218.4	218.4	218.4	218.4
62.5°	196.7	196.7	196.7	196.7	196.7
65°	175.1	175.1	175.1	175.1	175.1
67.5°	153.4	151.5	153.4	153.4	151.5
70°	131.8	129.8	131.8	131.8	131.8
72.5°	110.2	110.2	110.2	112.1	110.2
75°	90.5	92.5	92.5	92.5	90.5
77.5°	72.8	74.8	72.8	72.8	72.8
80°	57.1	55.0	55.0	55.0	57.1
82.5°	39.4	39.4	39.4	39.4	39.4
85°	23.6	23.6	23.6	23.6	23.6
87.5°	9.8	9.8	9.8	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0

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— 0°-180°    - - 45°-225°    - - - - 90°-270°

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