

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: P580339

Luminaire Tested: **HCC4S30D010SL-HM43040927-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580339  
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: HCC4S30D010SL-HM43040927-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

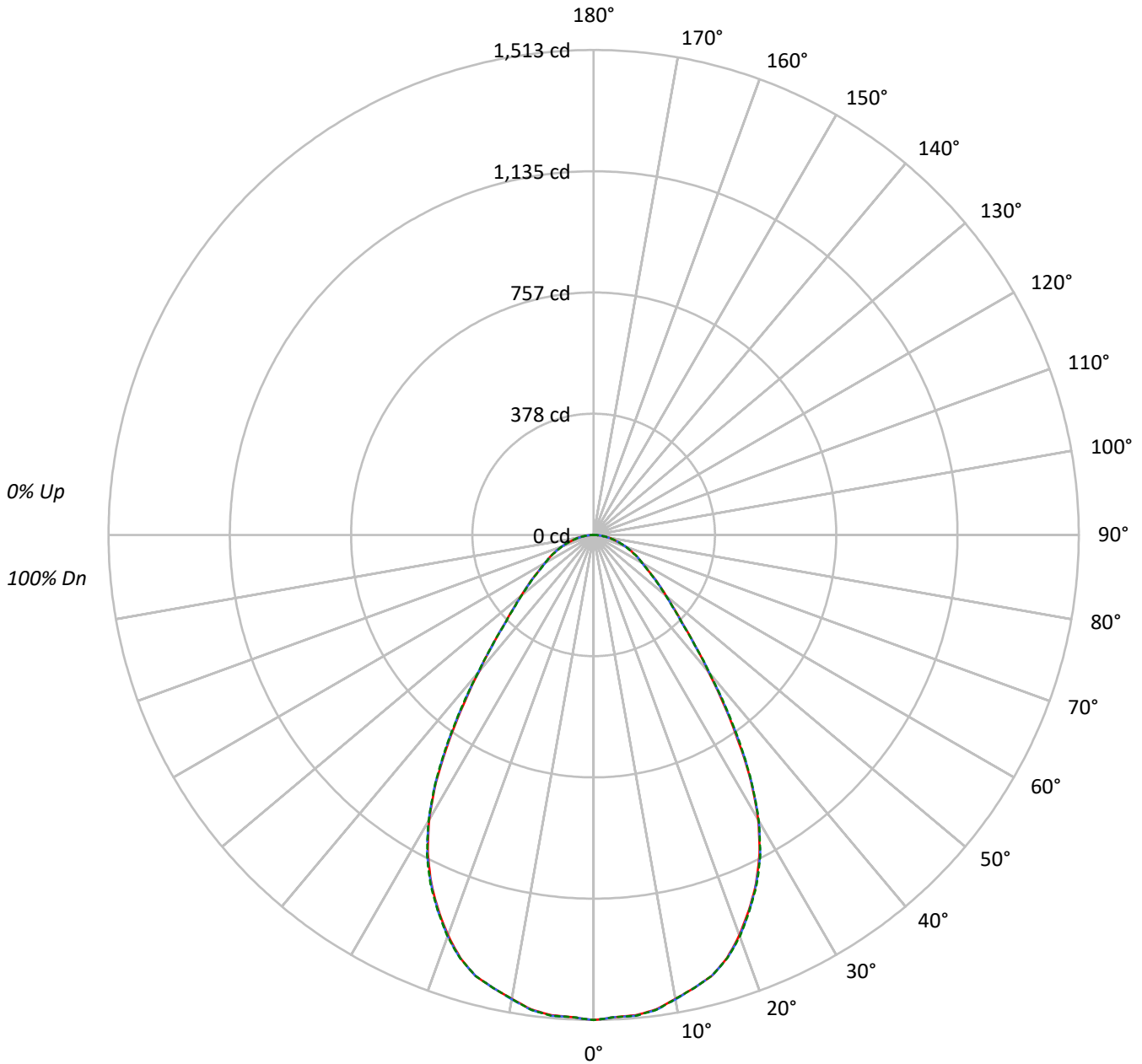
Lumens per Lamp: N/A  
Luminaire Lumens: 2335.1 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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									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	67	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°	186671	186671	186671
5°	186233	186431	186431
10°	184065	184253	184065
15°	181866	181866	181866
20°	174394	174801	175011
25°	163126	163330	163752
30°	146173	146600	146600
35°	118655	119603	119844
40°	89557	90073	90298
45°	68589	68310	68310
50°	56512	56205	56205
55°	48514	48170	48170
60°	43294	42900	42900
65°	40685	40685	40685
70°	37867	37867	37867
75°	34361	35123	34361
80°	32320	31183	32320
85°	26606	26606	26606



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.6	6.1
10°-20°	399.1	17.1
20°-30°	548.3	23.5
30°-40°	493.1	21.1
40°-50°	311.5	13.3
50°-60°	203.4	8.7
60°-70°	137.8	5.9
70°-80°	77.6	3.3
80°-90°	21.8	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°	1090.0	46.7
0°-40°	1583.1	67.8
0°-60°	2097.9	89.8
0°-90°	2335.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2335.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1513	1513	1513	1513	1513	
5°	1504	1504	1506	1506	1506	143
15°	1424	1424	1424	1424	1424	399
25°	1199	1200	1200	1203	1203	547
35°	788	791	794	798	796	491
45°	393	392	392	392	392	312
55°	226	226	224	226	224	204
65°	139	139	139	139	139	138
75°	72	74	74	74	72	77
85°	19	19	19	19	19	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1513.4	1513.4	1513.4	1513.4	1513.4
2.5°	1505.7	1505.7	1505.7	1505.7	1505.7
5°	1504.1	1504.1	1505.7	1505.7	1505.7
7.5°	1493.1	1494.7	1494.7	1494.7	1494.7
10°	1469.6	1469.6	1471.1	1471.1	1469.6
12.5°	1447.7	1447.7	1447.7	1449.3	1447.7
15°	1424.2	1424.2	1424.2	1424.2	1424.2
17.5°	1383.5	1385.0	1385.0	1385.0	1385.0
20°	1328.6	1331.7	1331.7	1333.3	1333.3
22.5°	1266.0	1267.5	1269.1	1270.6	1269.1
25°	1198.6	1200.1	1200.1	1203.2	1203.2
27.5°	1120.2	1121.8	1125.0	1125.0	1125.0
30°	1026.3	1027.8	1029.3	1029.3	1029.3
32.5°	915.0	915.0	918.1	919.7	918.1
35°	788.0	791.2	794.3	797.5	795.9
37.5°	667.4	670.6	672.2	672.2	673.8
40°	556.2	559.4	559.4	562.4	560.8
42.5°	468.5	466.9	466.9	470.0	468.5
45°	393.2	391.6	391.6	391.6	391.6
47.5°	338.4	336.8	336.8	336.8	336.8
50°	294.5	292.9	292.9	292.9	292.9
52.5°	258.5	257.0	257.0	257.0	255.4
55°	225.6	225.6	224.0	225.6	224.0
57.5°	195.8	195.8	195.8	195.8	195.8
60°	175.5	173.9	173.9	173.9	173.9
62.5°	156.7	156.7	156.7	156.7	156.7
65°	139.4	139.4	139.4	139.4	139.4
67.5°	122.2	120.7	122.2	122.2	120.7
70°	105.0	103.4	105.0	105.0	105.0
72.5°	87.8	87.8	87.8	89.3	87.8
75°	72.1	73.7	73.7	73.7	72.1
77.5°	58.0	59.6	58.0	58.0	58.0
80°	45.5	43.9	43.9	43.9	45.5
82.5°	31.4	31.4	31.4	31.4	31.4
85°	18.8	18.8	18.8	18.8	18.8
87.5°	7.8	7.8	7.8	7.8	7.8
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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