

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: P580375

Luminaire Tested: **HCC4S30D010BZ-HM43040935-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580375  
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: HCC4S30D010BZ-HM43040935-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

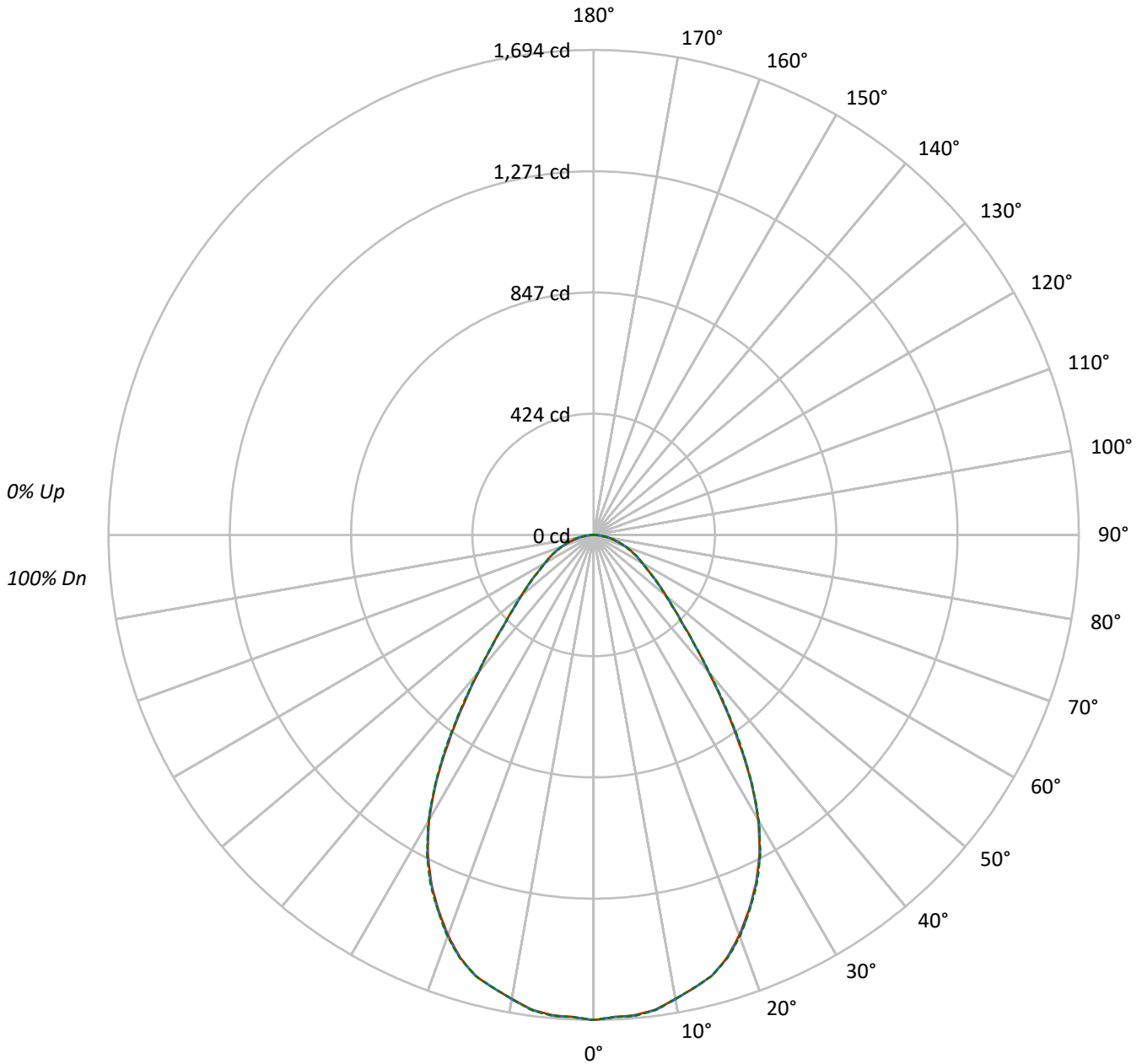
Lumens per Lamp: N/A  
Luminaire Lumens: 2614.1 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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					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	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°	208984	208984	208984
5°	208470	208693	208693
10°	206046	206272	206046
15°	203574	203574	203574
20°	195225	195685	195921
25°	182615	182832	183309
30°	163620	164119	164119
35°	132839	133893	134164
40°	100265	100828	101086
45°	76805	76491	76491
50°	63267	62940	62940
55°	54321	53934	53934
60°	48450	48031	48031
65°	45559	45559	45559
70°	42375	42375	42375
75°	38459	39317	38459
80°	36155	34877	36155
85°	29861	29861	29861



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.6	6.1
10°-20°	446.7	17.1
20°-30°	613.8	23.5
30°-40°	551.9	21.1
40°-50°	348.7	13.3
50°-60°	227.7	8.7
60°-70°	154.3	5.9
70°-80°	86.8	3.3
80°-90°	24.4	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°	1220.2	46.7
0°-40°	1772.1	67.8
0°-60°	2348.6	89.8
0°-90°	2614.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2614.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1694	1694	1694	1694	1694	
5°	1684	1684	1686	1686	1686	160
15°	1594	1594	1594	1594	1594	446
25°	1342	1343	1343	1347	1347	612
35°	882	886	889	893	891	549
45°	440	438	438	438	438	349
55°	253	253	251	253	251	229
65°	156	156	156	156	156	155
75°	81	82	82	82	81	86
85°	21	21	21	21	21	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1694.3	1694.3	1694.3	1694.3	1694.3
2.5°	1685.5	1685.5	1685.5	1685.5	1685.5
5°	1683.7	1683.7	1685.5	1685.5	1685.5
7.5°	1671.5	1673.2	1673.2	1673.2	1673.2
10°	1645.1	1645.1	1646.9	1646.9	1645.1
12.5°	1620.6	1620.6	1620.6	1622.3	1620.6
15°	1594.2	1594.2	1594.2	1594.2	1594.2
17.5°	1548.6	1550.4	1550.4	1550.4	1550.4
20°	1487.3	1490.8	1490.8	1492.6	1492.6
22.5°	1417.1	1418.9	1420.6	1422.4	1420.6
25°	1341.8	1343.4	1343.4	1346.9	1346.9
27.5°	1254.0	1255.8	1259.3	1259.3	1259.3
30°	1148.8	1150.6	1152.3	1152.3	1152.3
32.5°	1024.2	1024.2	1027.7	1029.5	1027.7
35°	882.2	885.7	889.2	892.7	891.0
37.5°	747.2	750.7	752.4	752.4	754.2
40°	622.7	626.2	626.2	629.6	627.8
42.5°	524.4	522.6	522.6	526.2	524.4
45°	440.3	438.5	438.5	438.5	438.5
47.5°	378.8	377.1	377.1	377.1	377.1
50°	329.7	328.0	328.0	328.0	328.0
52.5°	289.3	287.6	287.6	287.6	285.8
55°	252.6	252.6	250.8	252.6	250.8
57.5°	219.3	219.3	219.3	219.3	219.3
60°	196.4	194.7	194.7	194.7	194.7
62.5°	175.4	175.4	175.4	175.4	175.4
65°	156.1	156.1	156.1	156.1	156.1
67.5°	136.8	135.0	136.8	136.8	135.0
70°	117.5	115.7	117.5	117.5	117.5
72.5°	98.2	98.2	98.2	99.9	98.2
75°	80.7	82.5	82.5	82.5	80.7
77.5°	64.9	66.7	64.9	64.9	64.9
80°	50.9	49.1	49.1	49.1	50.9
82.5°	35.1	35.1	35.1	35.1	35.1
85°	21.1	21.1	21.1	21.1	21.1
87.5°	8.8	8.8	8.8	8.8	8.8
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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