

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: P579930

Luminaire Tested: **HCC4S15D010BZ-HM40525930-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579930  
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: HCC4S15D010BZ-HM40525930-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

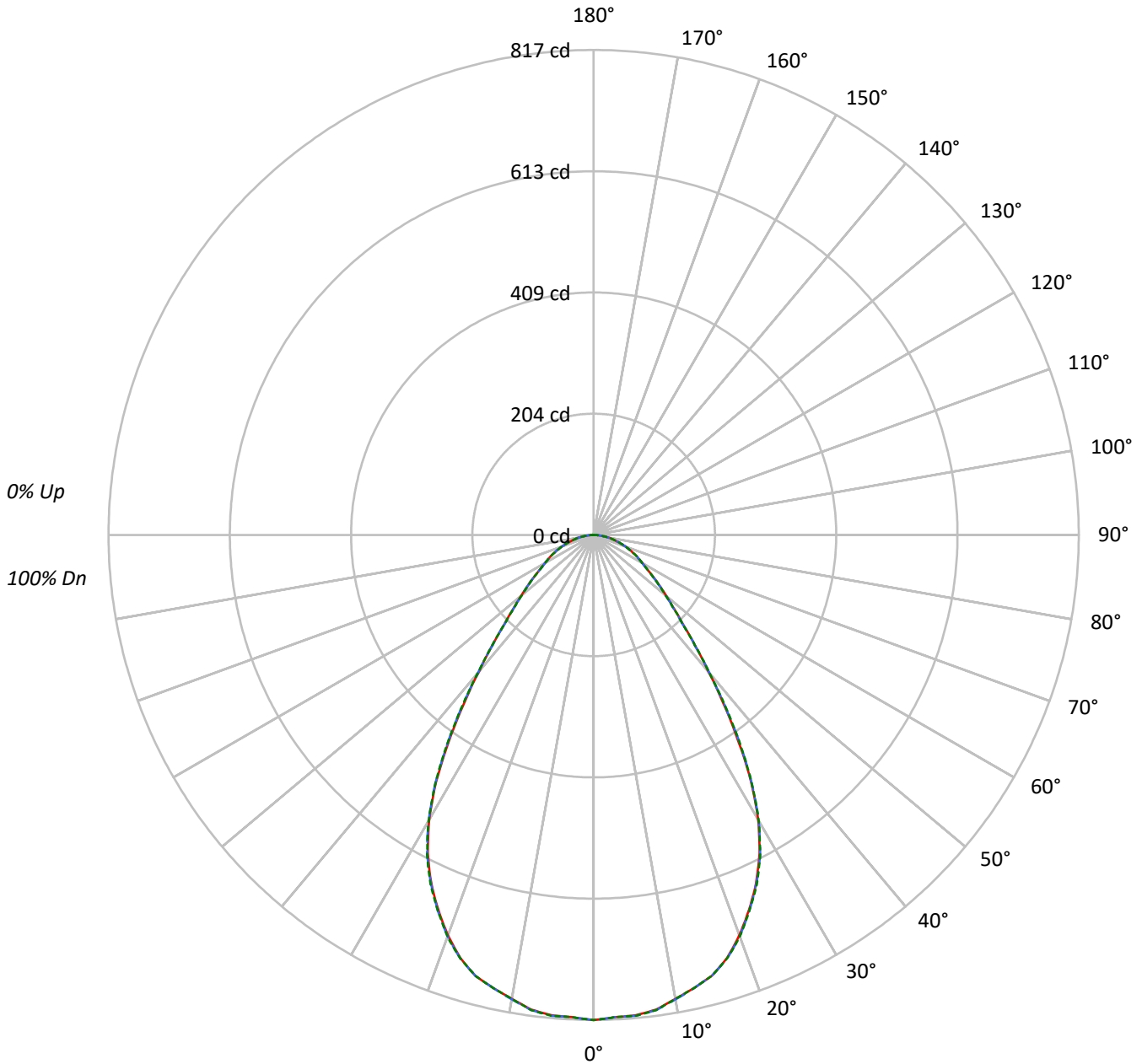
Lumens per Lamp: N/A  
Luminaire Lumens: 1261.0 lumens  
Efficiency: N/A  
Efficacy: 90.1 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 14  
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			100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			69
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42			42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39			39
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36			36

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

	0°	45°	90°
0°	100823	100823	100823
5°	100576	100688	100688
10°	99397	99510	99397
15°	98224	98224	98224
20°	94193	94417	94522
25°	88095	88204	88436
30°	78933	79175	79175
35°	64086	64598	64718
40°	48369	48643	48772
45°	37050	36893	36893
50°	30530	30376	30376
55°	26214	26021	26021
60°	23362	23164	23164
65°	21977	21977	21977
70°	20448	20448	20448
75°	18539	18968	18539
80°	17474	16764	17474
85°	14294	14294	14294



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.0	6.1
10°-20°	215.5	17.1
20°-30°	296.1	23.5
30°-40°	266.3	21.1
40°-50°	168.3	13.3
50°-60°	109.8	8.7
60°-70°	74.4	5.9
70°-80°	41.9	3.3
80°-90°	11.7	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°	588.7	46.7
0°-40°	854.9	67.8
0°-60°	1133.0	89.8
0°-90°	1261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1261.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	812	812	813	813	813	77
15°	769	769	769	769	769	215
25°	647	648	648	650	650	295
35°	426	427	429	431	430	265
45°	212	212	212	212	212	168
55°	122	122	121	122	121	110
65°	75	75	75	75	75	75
75°	39	40	40	40	39	42
85°	10	10	10	10	10	12
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	817.4	817.4	817.4	817.4	817.4
2.5°	813.2	813.2	813.2	813.2	813.2
5°	812.3	812.3	813.2	813.2	813.2
7.5°	806.4	807.3	807.3	807.3	807.3
10°	793.6	793.6	794.5	794.5	793.6
12.5°	781.8	781.8	781.8	782.7	781.8
15°	769.2	769.2	769.2	769.2	769.2
17.5°	747.1	748.0	748.0	748.0	748.0
20°	717.6	719.3	719.3	720.1	720.1
22.5°	683.7	684.5	685.4	686.2	685.4
25°	647.3	648.1	648.1	649.8	649.8
27.5°	605.0	605.8	607.5	607.5	607.5
30°	554.2	555.1	555.9	555.9	555.9
32.5°	494.1	494.1	495.8	496.6	495.8
35°	425.6	427.3	429.0	430.7	429.8
37.5°	360.4	362.1	363.0	363.0	363.8
40°	300.4	302.1	302.1	303.8	302.9
42.5°	253.0	252.2	252.2	253.9	253.0
45°	212.4	211.5	211.5	211.5	211.5
47.5°	182.7	181.9	181.9	181.9	181.9
50°	159.1	158.3	158.3	158.3	158.3
52.5°	139.6	138.7	138.7	138.7	137.9
55°	121.9	121.9	121.0	121.9	121.0
57.5°	105.7	105.7	105.7	105.7	105.7
60°	94.7	93.9	93.9	93.9	93.9
62.5°	84.6	84.6	84.6	84.6	84.6
65°	75.3	75.3	75.3	75.3	75.3
67.5°	65.9	65.2	65.9	65.9	65.2
70°	56.7	55.8	56.7	56.7	56.7
72.5°	47.4	47.4	47.4	48.2	47.4
75°	38.9	39.8	39.8	39.8	38.9
77.5°	31.3	32.2	31.3	31.3	31.3
80°	24.6	23.6	23.6	23.6	24.6
82.5°	16.9	16.9	16.9	16.9	16.9
85°	10.1	10.1	10.1	10.1	10.1
87.5°	4.2	4.2	4.2	4.2	4.2
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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