

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: P580537

Luminaire Tested: **HCC4S35D010BZ-HM43040940-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580537  
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: HCC4S35D010BZ-HM43040940-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

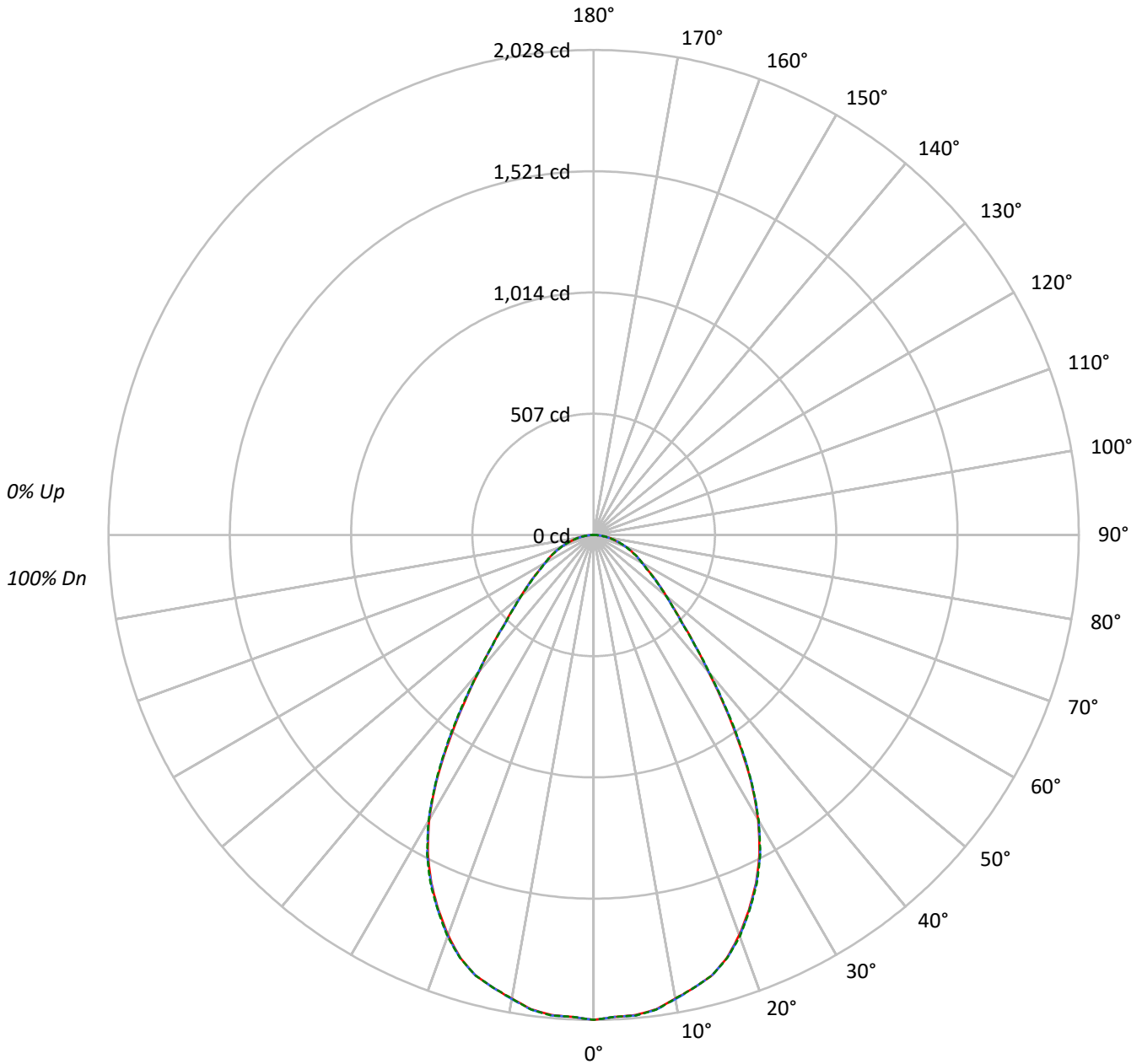
Lumens per Lamp: N/A  
Luminaire Lumens: 3128.7 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.7  
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								
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°	250120	250120	250120
5°	249516	249763	249763
10°	246614	246890	246614
15°	243658	243658	243658
20°	233659	234197	234486
25°	218558	218844	219415
30°	195837	196421	196421
35°	158994	160259	160560
40°	119989	120666	121004
45°	91911	91545	91545
50°	75720	75318	75318
55°	64987	64557	64557
60°	57997	57479	57479
65°	54520	54520	54520
70°	50706	50706	50706
75°	46037	47038	46037
80°	43258	41767	43258
85°	35664	35664	35664



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.1	6.1
10°-20°	534.6	17.1
20°-30°	734.7	23.5
30°-40°	660.6	21.1
40°-50°	417.4	13.3
50°-60°	272.5	8.7
60°-70°	184.6	5.9
70°-80°	104.0	3.3
80°-90°	29.2	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°	1460.4	46.7
0°-40°	2121.0	67.8
0°-60°	2810.8	89.8
0°-90°	3128.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3128.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2028	2028	2028	2028	2028	
5°	2015	2015	2017	2017	2017	191
15°	1908	1908	1908	1908	1908	534
25°	1606	1608	1608	1612	1612	733
35°	1056	1060	1064	1068	1066	657
45°	527	525	525	525	525	418
55°	302	302	300	302	300	274
65°	187	187	187	187	187	185
75°	97	99	99	99	97	104
85°	25	25	25	25	25	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2027.8	2027.8	2027.8	2027.8	2027.8
2.5°	2017.2	2017.2	2017.2	2017.2	2017.2
5°	2015.2	2015.2	2017.2	2017.2	2017.2
7.5°	2000.5	2002.6	2002.6	2002.6	2002.6
10°	1969.0	1969.0	1971.2	1971.2	1969.0
12.5°	1939.6	1939.6	1939.6	1941.7	1939.6
15°	1908.1	1908.1	1908.1	1908.1	1908.1
17.5°	1853.6	1855.6	1855.6	1855.6	1855.6
20°	1780.1	1784.2	1784.2	1786.4	1786.4
22.5°	1696.1	1698.3	1700.3	1702.4	1700.3
25°	1605.9	1608.0	1608.0	1612.2	1612.2
27.5°	1500.9	1503.0	1507.2	1507.2	1507.2
30°	1375.0	1377.0	1379.1	1379.1	1379.1
32.5°	1225.9	1225.9	1230.1	1232.2	1230.1
35°	1055.9	1060.0	1064.3	1068.5	1066.3
37.5°	894.3	898.4	900.5	900.5	902.7
40°	745.2	749.4	749.4	753.6	751.5
42.5°	627.6	625.5	625.5	629.8	627.6
45°	526.9	524.8	524.8	524.8	524.8
47.5°	453.4	451.3	451.3	451.3	451.3
50°	394.6	392.5	392.5	392.5	392.5
52.5°	346.4	344.3	344.3	344.3	342.1
55°	302.2	302.2	300.2	302.2	300.2
57.5°	262.3	262.3	262.3	262.3	262.3
60°	235.1	233.0	233.0	233.0	233.0
62.5°	210.0	210.0	210.0	210.0	210.0
65°	186.8	186.8	186.8	186.8	186.8
67.5°	163.8	161.6	163.8	163.8	161.6
70°	140.6	138.6	140.6	140.6	140.6
72.5°	117.6	117.6	117.6	119.7	117.6
75°	96.6	98.7	98.7	98.7	96.6
77.5°	77.7	79.8	77.7	77.7	77.7
80°	60.9	58.8	58.8	58.8	60.9
82.5°	42.0	42.0	42.0	42.0	42.0
85°	25.2	25.2	25.2	25.2	25.2
87.5°	10.5	10.5	10.5	10.5	10.5
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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