

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: P580555

Luminaire Tested: **HCC4S40D010MB-HM43040827-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580555  
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: HCC4S40D010MB-HM43040827-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

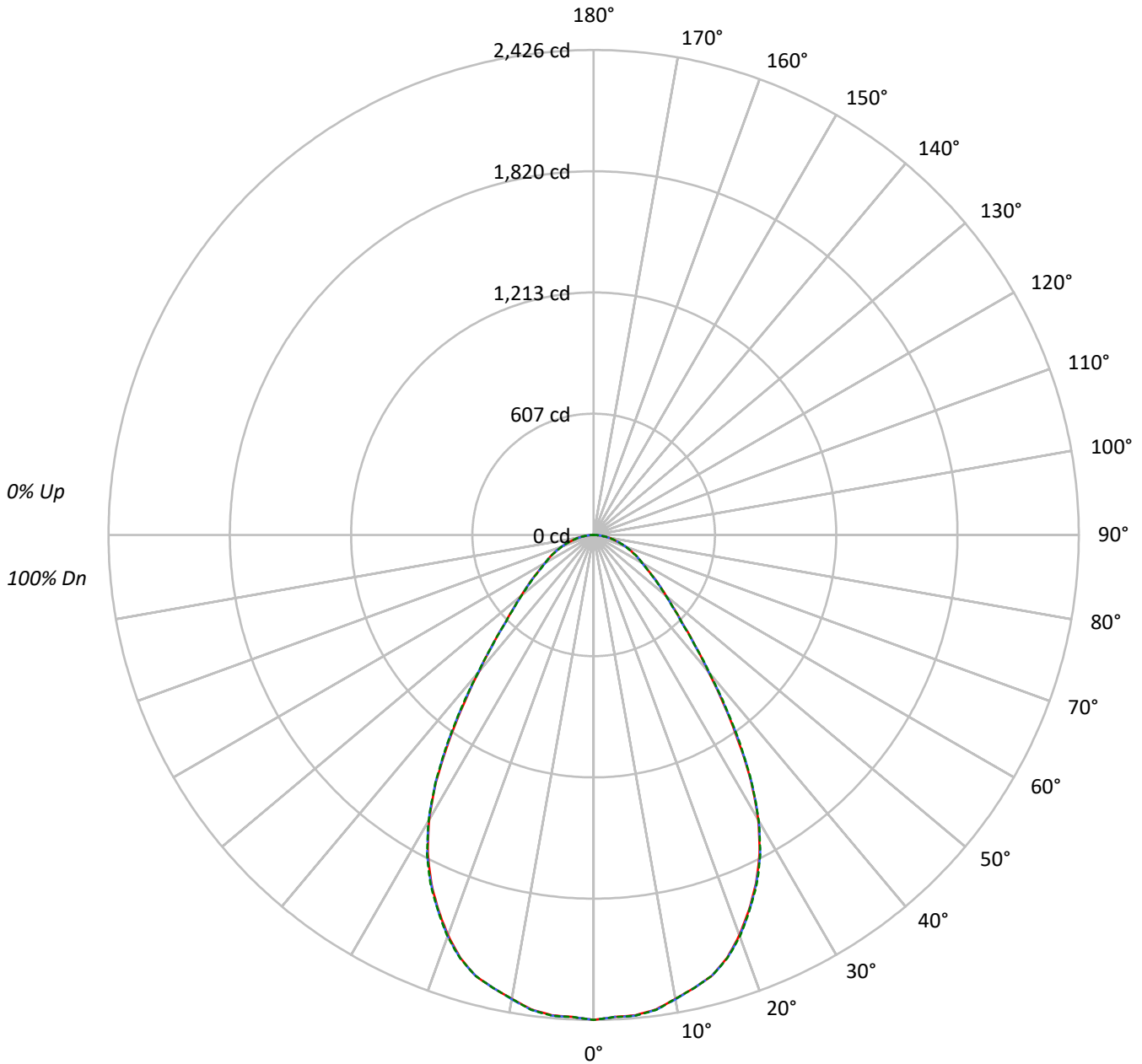
Lumens per Lamp: N/A  
Luminaire Lumens: 3743.7 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
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°	299286	299286	299286
5°	298572	298869	298869
10°	295098	295411	295098
15°	291570	291570	291570
20°	279587	280257	280572
25°	261510	261864	262531
30°	234321	235033	235033
35°	190254	191760	192137
40°	143562	144383	144802
45°	109983	109546	109546
50°	90611	90132	90132
55°	77782	77245	77245
60°	69419	68778	68778
65°	65231	65231	65231
70°	60695	60695	60695
75°	55092	56235	55092
80°	51782	49935	51782
85°	42740	42740	42740



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.6	6.1
10°-20°	639.8	17.1
20°-30°	879.1	23.5
30°-40°	790.4	21.1
40°-50°	499.4	13.3
50°-60°	326.1	8.7
60°-70°	220.9	5.9
70°-80°	124.3	3.3
80°-90°	34.9	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°	1747.5	46.7
0°-40°	2537.9	67.8
0°-60°	3363.5	89.8
0°-90°	3743.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3743.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2426	2426	2426	2426	2426	
5°	2411	2411	2414	2414	2414	228
15°	2283	2283	2283	2283	2283	639
25°	1922	1924	1924	1929	1929	877
35°	1264	1268	1274	1278	1276	787
45°	630	628	628	628	628	500
55°	362	362	359	362	359	327
65°	224	224	224	224	224	222
75°	116	118	118	118	116	124
85°	30	30	30	30	30	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2426.4	2426.4	2426.4	2426.4	2426.4
2.5°	2413.8	2413.8	2413.8	2413.8	2413.8
5°	2411.4	2411.4	2413.8	2413.8	2413.8
7.5°	2393.8	2396.2	2396.2	2396.2	2396.2
10°	2356.1	2356.1	2358.6	2358.6	2356.1
12.5°	2320.9	2320.9	2320.9	2323.4	2320.9
15°	2283.3	2283.3	2283.3	2283.3	2283.3
17.5°	2217.9	2220.5	2220.5	2220.5	2220.5
20°	2130.0	2135.1	2135.1	2137.5	2137.5
22.5°	2029.6	2032.0	2034.6	2037.1	2034.6
25°	1921.5	1924.1	1924.1	1929.0	1929.0
27.5°	1796.0	1798.4	1803.5	1803.5	1803.5
30°	1645.2	1647.8	1650.2	1650.2	1650.2
32.5°	1466.9	1466.9	1471.9	1474.5	1471.9
35°	1263.5	1268.4	1273.5	1278.5	1276.0
37.5°	1070.0	1075.0	1077.6	1077.6	1080.1
40°	891.6	896.7	896.7	901.7	899.3
42.5°	751.1	748.5	748.5	753.5	751.1
45°	630.5	628.0	628.0	628.0	628.0
47.5°	542.6	540.0	540.0	540.0	540.0
50°	472.2	469.7	469.7	469.7	469.7
52.5°	414.4	412.0	412.0	412.0	409.4
55°	361.7	361.7	359.2	361.7	359.2
57.5°	314.0	314.0	314.0	314.0	314.0
60°	281.4	278.8	278.8	278.8	278.8
62.5°	251.2	251.2	251.2	251.2	251.2
65°	223.5	223.5	223.5	223.5	223.5
67.5°	196.0	193.4	196.0	196.0	193.4
70°	168.3	165.8	168.3	168.3	168.3
72.5°	140.7	140.7	140.7	143.2	140.7
75°	115.6	118.0	118.0	118.0	115.6
77.5°	92.9	95.4	92.9	92.9	92.9
80°	72.9	70.3	70.3	70.3	72.9
82.5°	50.2	50.2	50.2	50.2	50.2
85°	30.2	30.2	30.2	30.2	30.2
87.5°	12.6	12.6	12.6	12.6	12.6
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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(END OF REPORT)