

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: P581047

Luminaire Tested: **HCC4S05D010MW-HM40525927-41WDBB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581047  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S05D010MW-HM40525927-41WDBB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

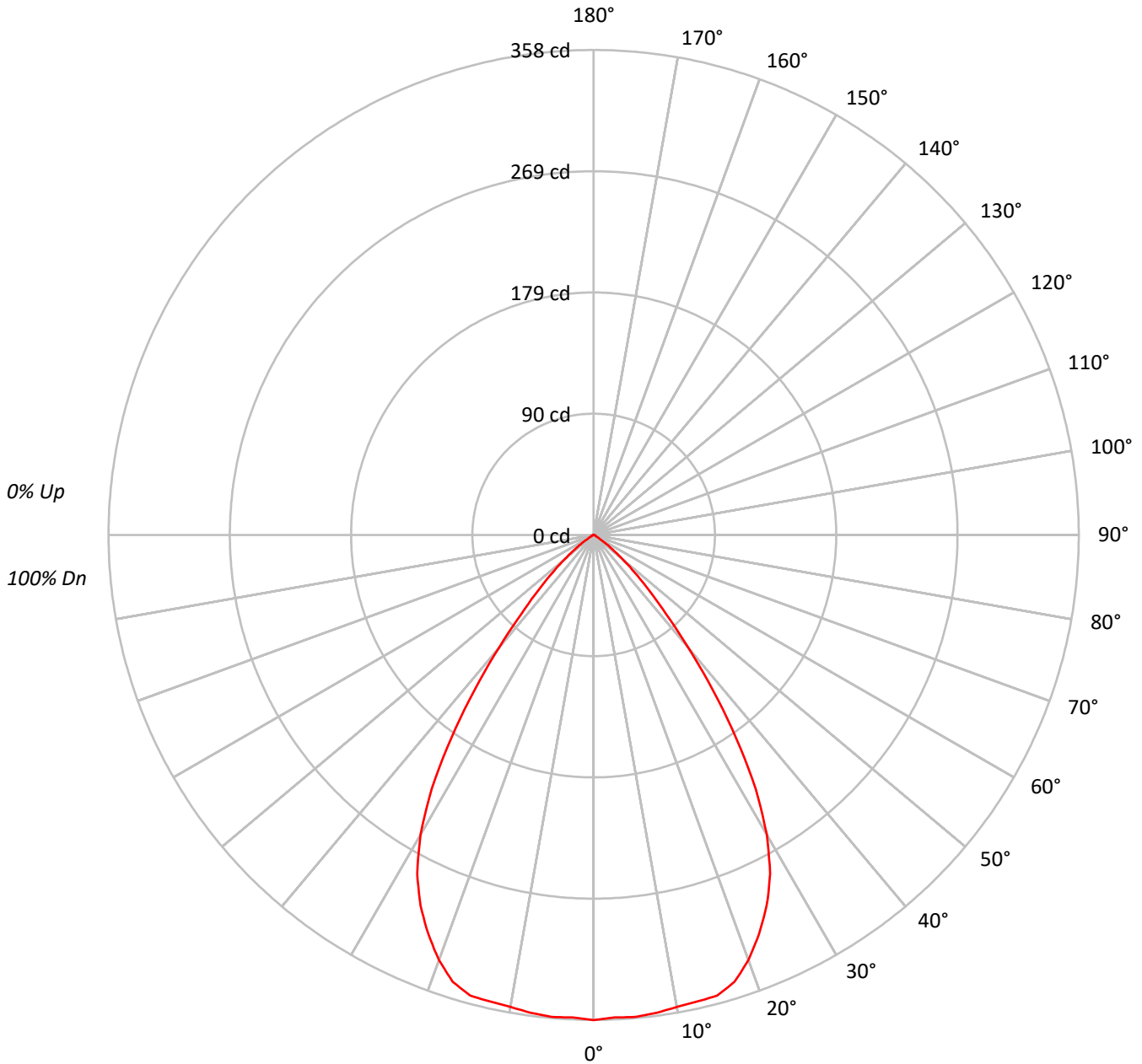
Lumens per Lamp: N/A  
Luminaire Lumens: 442.9 lumens  
Efficiency: N/A  
Efficacy: 73.8 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.03  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 6  
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									20
RC	80									50									30									10									0									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	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	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93																			93									
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																			85									
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78																			78									
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72																			72									
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66																			66									
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61																			61									
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56																			56									
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52																			52									
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49																			49									
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45																			45									

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

	0°
0°	44182
5°	44227
10°	44313
15°	44962
20°	43828
25°	41115
30°	36376
35°	27646
40°	17438
45°	9995
50°	5315
55°	2193
60°	592
65°	496
70°	361
75°	334
80°	213
85°	425



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.0	7.7
10°-20°	98.6	22.3
20°-30°	137.6	31.1
30°-40°	113.2	25.6
40°-50°	46.6	10.5
50°-60°	10.5	2.4
60°-70°	1.7	0.4
70°-80°	0.6	0.1
80°-90°	0.2	0.0
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°	270.1	61.0
0°-40°	383.3	86.5
0°-60°	440.4	99.4
0°-90°	442.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	442.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	358	
5°	357	34
15°	352	99
25°	302	138
35°	184	113
45°	57	47
55°	10	10
65°	2	2
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	358.2
2.5°	356.5
5°	357.2
7.5°	355.8
10°	353.8
12.5°	352.8
15°	352.1
17.5°	345.8
20°	333.9
22.5°	318.9
25°	302.1
27.5°	282.0
30°	255.4
32.5°	222.6
35°	183.6
37.5°	144.5
40°	108.3
42.5°	78.9
45°	57.3
47.5°	41.0
50°	27.7
52.5°	17.4
55°	10.2
57.5°	5.1
60°	2.4
62.5°	2.0
65°	1.7
67.5°	1.4
70°	1.0
72.5°	0.7
75°	0.7
77.5°	0.3
80°	0.3
82.5°	0.3
85°	0.3
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)