

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: P592682

Luminaire Tested: **HCC4S20D010MB-HM40525950-41WDC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592682  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S20D010MB-HM40525950-41WDC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

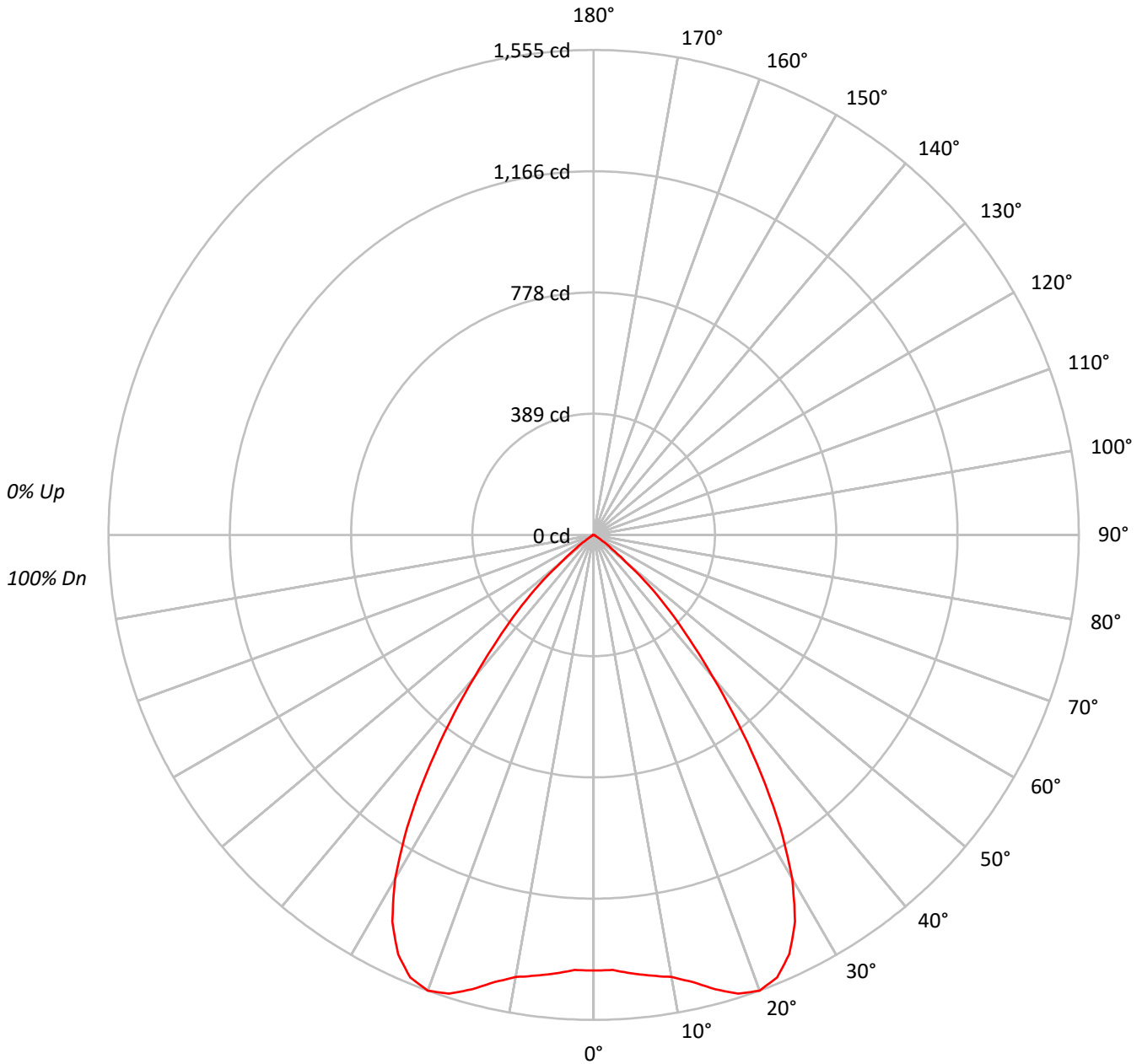
Lumens per Lamp: N/A  
Luminaire Lumens: 2132.3 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92			92	
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85			85	
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77			77	
4	95	86	80	76	93	85	79	75	83	78	74	81	77	73	79	75	72	71			71	
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65			65	
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	65	61	60			60	
7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55			55	
8	75	64	57	53	73	63	57	53	62	57	53	61	56	52	60	56	52	51			51	
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47			47	
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43			43	

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

	0°
0°	172252
5°	174767
10°	180270
15°	192605
20°	204099
25°	201859
30°	181167
35°	141000
40°	95515
45°	59640
50°	25809
55°	8666
60°	2171
65°	1459
70°	902
75°	620
80°	923
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.6	6.4
10°-20°	428.2	20.1
20°-30°	670.9	31.5
30°-40°	579.0	27.2
40°-50°	266.3	12.5
50°-60°	45.2	2.1
60°-70°	5.1	0.2
70°-80°	1.8	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°	1234.6	57.9
0°-40°	1813.6	85.1
0°-60°	2125.1	99.7
0°-90°	2132.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2132.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1396	
5°	1412	136
15°	1508	428
25°	1483	671
35°	936	579
45°	342	266
55°	40	45
65°	5	5
75°	1	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1396.5
2.5°	1396.5
5°	1411.5
7.5°	1425.4
10°	1439.3
12.5°	1468.2
15°	1508.3
17.5°	1542.3
20°	1554.9
22.5°	1535.9
25°	1483.2
27.5°	1397.7
30°	1272.0
32.5°	1113.6
35°	936.4
37.5°	757.9
40°	593.2
42.5°	453.8
45°	341.9
47.5°	240.1
50°	134.5
52.5°	74.2
55°	40.3
57.5°	20.1
60°	8.8
62.5°	6.3
65°	5.0
67.5°	3.8
70°	2.5
72.5°	2.5
75°	1.3
77.5°	1.3
80°	1.3
82.5°	0.0
85°	0.0
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)