

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: P580084

Luminaire Tested: **HCC4S20D010BZ-HM40525935-41MDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580084  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S20D010BZ-HM40525935-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

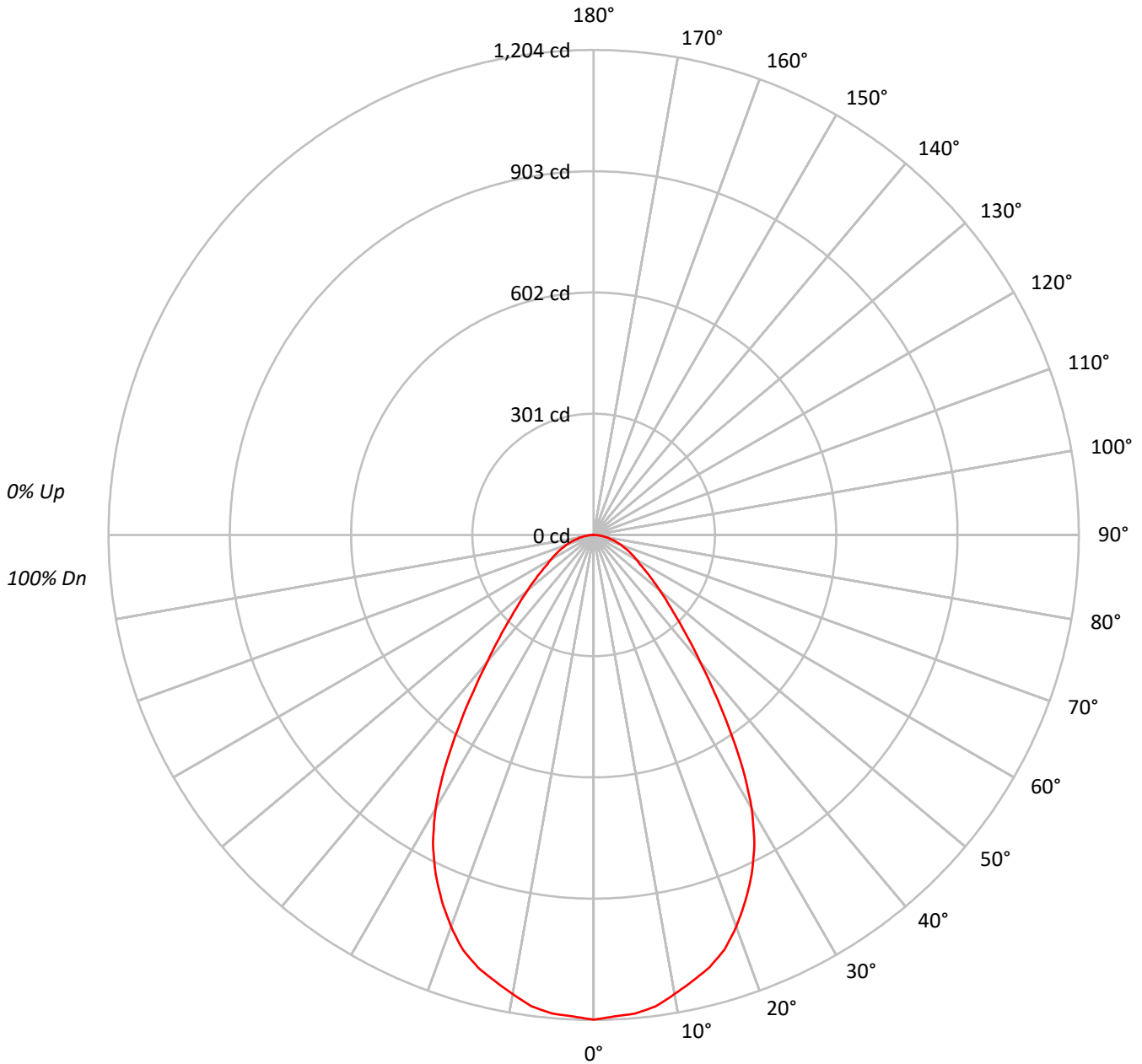
Lumens per Lamp: N/A  
Luminaire Lumens: 1751.0 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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				
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89				
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79				
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70				
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63				
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57				
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52				
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47				
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44				
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40				
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37				

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

	0°
0°	148446
5°	147652
10°	144963
15°	141909
20°	135830
25°	126325
30°	111791
35°	88238
40°	66033
45°	50796
50°	41199
55°	34192
60°	30220
65°	27989
70°	25822
75°	23733
80°	21523
85°	17266



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.7	6.4
10°-20°	311.7	17.8
20°-30°	423.2	24.2
30°-40°	366.6	20.9
40°-50°	230.1	13.1
50°-60°	144.8	8.3
60°-70°	95.1	5.4
70°-80°	52.5	3.0
80°-90°	14.3	0.8
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°	847.6	48.4
0°-40°	1214.1	69.3
0°-60°	1589.1	90.8
0°-90°	1751.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1751.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1204	
5°	1192	113
15°	1111	312
25°	928	423
35°	586	367
45°	291	230
55°	159	145
65°	96	95
75°	50	52
85°	12	14
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1203.5
2.5°	1196.2
5°	1192.5
7.5°	1180.5
10°	1157.4
12.5°	1134.4
15°	1111.3
17.5°	1079.8
20°	1034.8
22.5°	983.9
25°	928.2
27.5°	863.8
30°	784.9
32.5°	689.1
35°	586.0
37.5°	491.4
40°	410.1
42.5°	345.8
45°	291.2
47.5°	249.9
50°	214.7
52.5°	184.4
55°	159.0
57.5°	137.1
60°	122.5
62.5°	109.2
65°	95.9
67.5°	82.5
70°	71.6
72.5°	59.4
75°	49.8
77.5°	38.8
80°	30.3
82.5°	20.6
85°	12.2
87.5°	4.8
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)