

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: P580220

Luminaire Tested: **HCC4S25D010BZ-HM40525935-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580220  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S25D010BZ-HM40525935-41WDWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

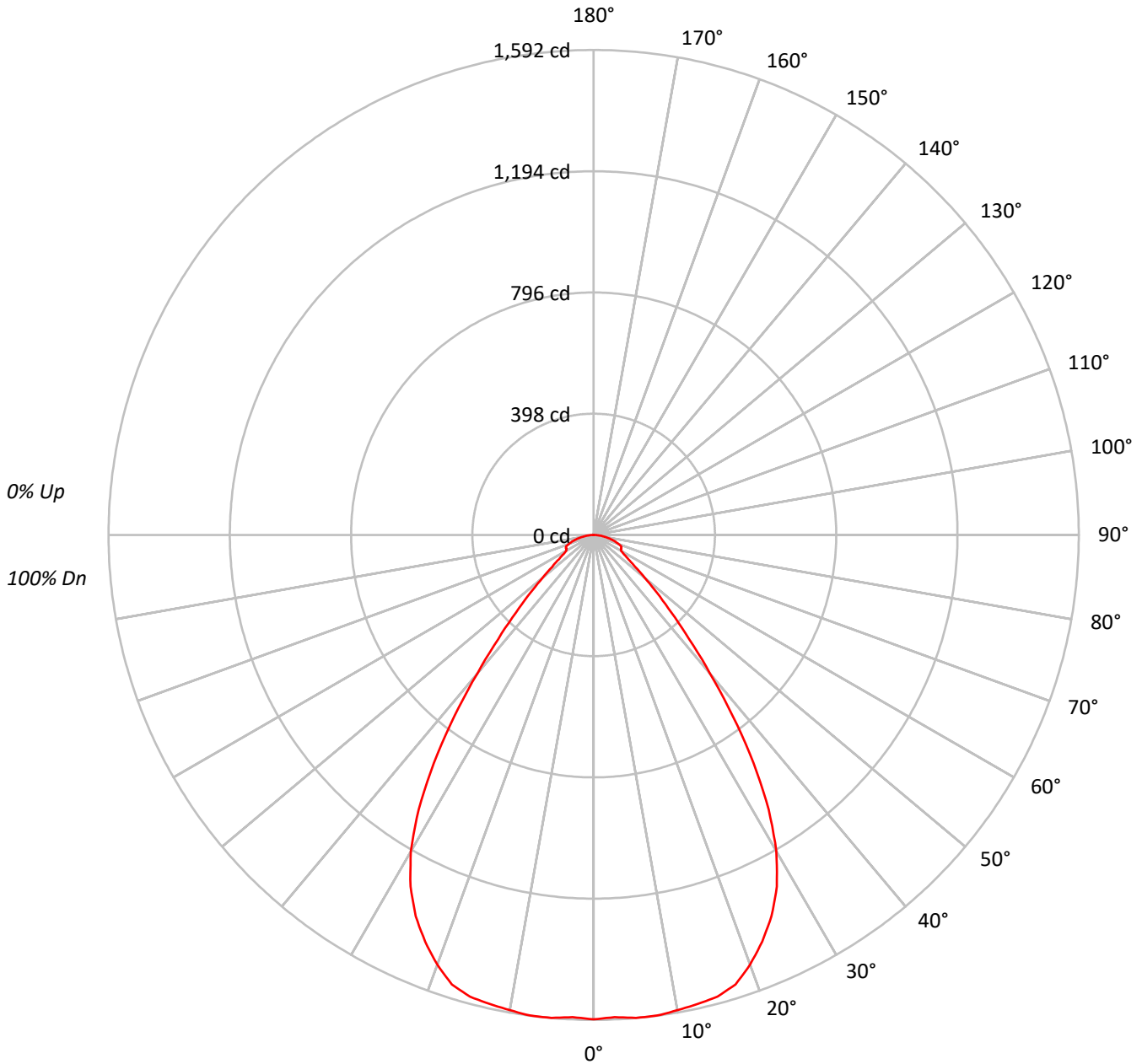
Lumens per Lamp: N/A  
Luminaire Lumens: 2389.1 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.8  
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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

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

	0°
0°	196132
5°	197067
10°	198419
15°	200407
20°	197050
25°	187991
30°	170799
35°	137763
40°	95595
45°	62762
50°	42043
55°	29934
60°	25557
65°	29390
70°	31520
75°	30358
80°	27347
85°	25050



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.7	6.3
10°-20°	440.9	18.5
20°-30°	629.9	26.4
30°-40°	562.7	23.6
40°-50°	288.6	12.1
50°-60°	131.2	5.5
60°-70°	97.9	4.1
70°-80°	66.6	2.8
80°-90°	19.7	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°	1222.4	51.2
0°-40°	1785.1	74.7
0°-60°	2204.9	92.3
0°-90°	2389.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2389.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1590	
5°	1592	152
15°	1569	441
25°	1381	630
35°	915	563
45°	360	289
55°	139	131
65°	101	98
75°	64	67
85°	18	20
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1590.1
2.5°	1584.2
5°	1591.6
7.5°	1591.6
10°	1584.2
12.5°	1576.8
15°	1569.4
17.5°	1547.2
20°	1501.2
22.5°	1445.0
25°	1381.3
27.5°	1301.4
30°	1199.2
32.5°	1068.9
35°	914.9
37.5°	750.7
40°	593.7
42.5°	463.5
45°	359.8
47.5°	281.3
50°	219.1
52.5°	171.7
55°	139.2
57.5°	117.0
60°	103.6
62.5°	100.7
65°	100.7
67.5°	97.8
70°	87.4
72.5°	75.5
75°	63.7
77.5°	50.4
80°	38.5
82.5°	28.1
85°	17.7
87.5°	7.5
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)