

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: P580284

Luminaire Tested: **HCC4W30D010SL-HM43040830-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580284  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W30D010SL-HM43040830-41PSMDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

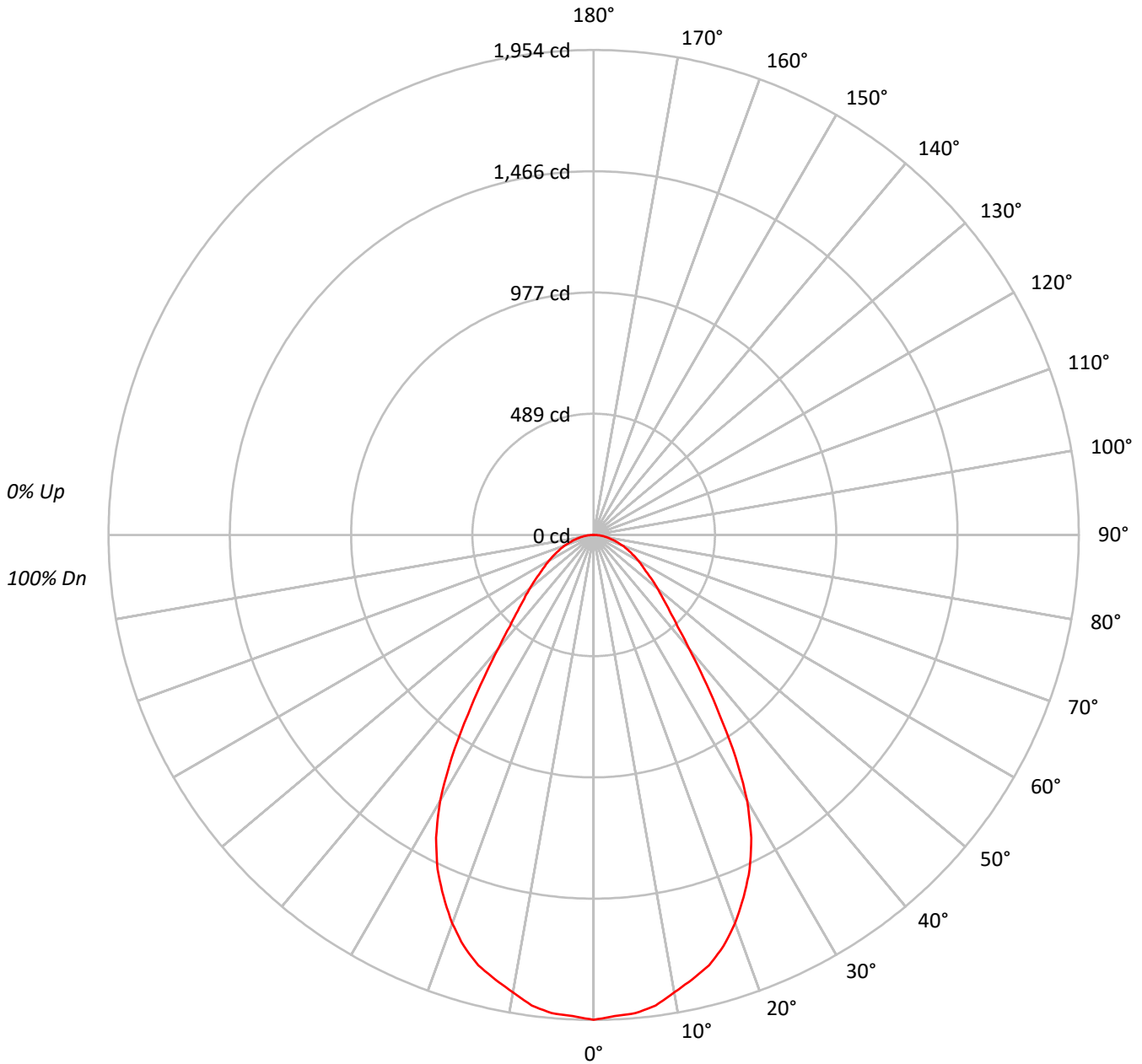
Lumens per Lamp: N/A  
Luminaire Lumens: 2774.5 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
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



TEST NUMBER: P580284  
CATALOG NUMBER: HCC4W30D010SL-HM43040830-41PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P580284

CATALOG NUMBER: HCC4W30D010SL-HM43040830-41PSMDW

**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	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	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	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

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

	0°
0°	240993
5°	239486
10°	234390
15°	229203
20°	218603
25°	202362
30°	176012
35°	132930
40°	96336
45°	75287
50°	64380
55°	55676
60°	51287
65°	46960
70°	43854
75°	40223
80°	37647
85°	36088



TEST NUMBER: P580284  
 CATALOG NUMBER: HCC4W30D010SL-HM43040830-41PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.7	6.6
10°-20°	502.8	18.1
20°-30°	676.1	24.4
30°-40°	555.9	20.0
40°-50°	341.4	12.3
50°-60°	236.3	8.5
60°-70°	161.1	5.8
70°-80°	89.8	3.2
80°-90°	28.6	1.0
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°	1361.5	49.1
0°-40°	1917.4	69.1
0°-60°	2495.1	89.9
0°-90°	2774.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2774.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1954	
5°	1934	183
15°	1795	503
25°	1487	676
35°	883	556
45°	432	341
55°	259	236
65°	161	161
75°	84	90
85°	26	29
90°	0	



TEST NUMBER: P580284  
CATALOG NUMBER: HCC4W30D010SL-HM43040830-41PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1953.8
2.5°	1940.0
5°	1934.2
7.5°	1912.5
10°	1871.4
12.5°	1834.1
15°	1794.9
17.5°	1738.0
20°	1665.4
22.5°	1579.1
25°	1486.9
27.5°	1375.0
30°	1235.8
32.5°	1065.2
35°	882.8
37.5°	725.8
40°	598.3
42.5°	500.2
45°	431.6
47.5°	378.6
50°	335.5
52.5°	296.2
55°	258.9
57.5°	231.5
60°	207.9
62.5°	184.4
65°	160.9
67.5°	141.2
70°	121.6
72.5°	102.0
75°	84.4
77.5°	66.7
80°	53.0
82.5°	39.3
85°	25.5
87.5°	13.8
90°	0.0

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)