

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: P580357

Luminaire Tested: **HCC4W30D010MB-HM43040930-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580357  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W30D010MB-HM43040930-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

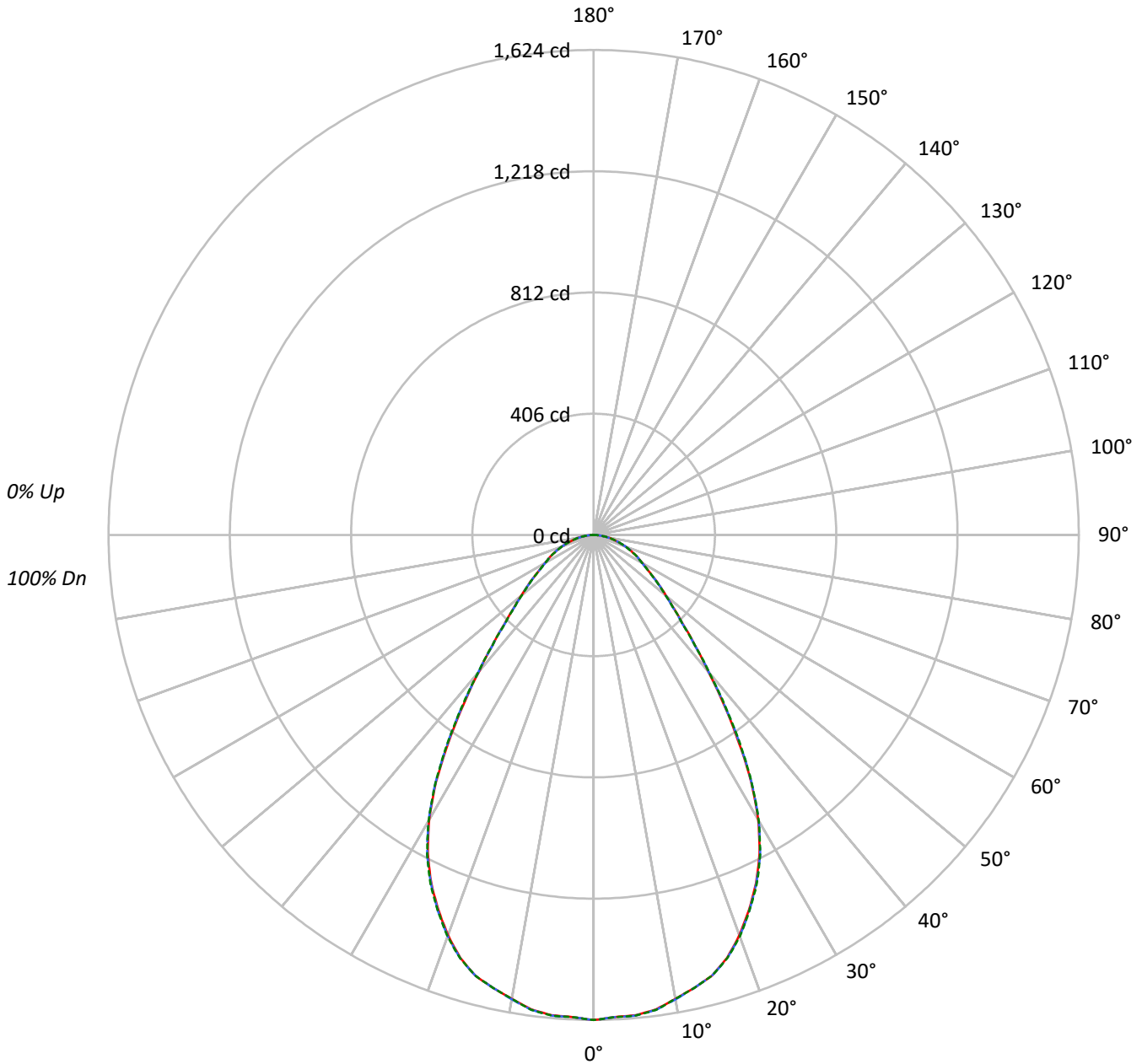
Lumens per Lamp: N/A  
Luminaire Lumens: 2506.3 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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



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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	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89								
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78								
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69								
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62								
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56								
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51								
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46								
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42								
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39								
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36								

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

	0°	45°	90°
0°	200350	200350	200350
5°	199877	200088	200088
10°	197554	197767	197554
15°	195172	195172	195172
20°	187166	187612	187835
25°	175075	175306	175755
30°	156869	157354	157354
35°	127358	128367	128623
40°	96111	96658	96932
45°	73630	73333	73333
50°	60676	60350	60350
55°	52084	51719	51719
60°	46477	46057	46057
65°	43692	43692	43692
70°	40644	40644	40644
75°	36887	37697	36887
80°	34593	33385	34593
85°	28588	28588	28588



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.0	6.1
10°-20°	428.3	17.1
20°-30°	588.5	23.5
30°-40°	529.2	21.1
40°-50°	334.4	13.3
50°-60°	218.3	8.7
60°-70°	147.9	5.9
70°-80°	83.3	3.3
80°-90°	23.4	0.9
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°	1169.8	46.7
0°-40°	1699.0	67.8
0°-60°	2251.7	89.8
0°-90°	2506.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2506.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1624	1624	1624	1624	1624	
5°	1614	1614	1616	1616	1616	153
15°	1528	1528	1528	1528	1528	428
25°	1286	1288	1288	1291	1291	587
35°	846	849	852	856	854	527
45°	422	420	420	420	420	335
55°	242	242	240	242	240	219
65°	150	150	150	150	150	148
75°	77	79	79	79	77	83
85°	20	20	20	20	20	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1624.3	1624.3	1624.3	1624.3	1624.3
2.5°	1616.0	1616.0	1616.0	1616.0	1616.0
5°	1614.3	1614.3	1616.0	1616.0	1616.0
7.5°	1602.4	1604.1	1604.1	1604.1	1604.1
10°	1577.3	1577.3	1579.0	1579.0	1577.3
12.5°	1553.7	1553.7	1553.7	1555.4	1553.7
15°	1528.4	1528.4	1528.4	1528.4	1528.4
17.5°	1484.8	1486.5	1486.5	1486.5	1486.5
20°	1425.9	1429.3	1429.3	1431.0	1431.0
22.5°	1358.7	1360.4	1362.1	1363.8	1362.1
25°	1286.4	1288.1	1288.1	1291.4	1291.4
27.5°	1202.3	1203.9	1207.3	1207.3	1207.3
30°	1101.4	1103.1	1104.8	1104.8	1104.8
32.5°	982.0	982.0	985.4	987.0	985.4
35°	845.8	849.2	852.5	855.9	854.2
37.5°	716.3	719.7	721.4	721.4	723.0
40°	596.9	600.3	600.3	603.7	602.0
42.5°	502.7	501.1	501.1	504.4	502.7
45°	422.1	420.4	420.4	420.4	420.4
47.5°	363.2	361.5	361.5	361.5	361.5
50°	316.2	314.5	314.5	314.5	314.5
52.5°	277.5	275.8	275.8	275.8	274.1
55°	242.2	242.2	240.5	242.2	240.5
57.5°	210.1	210.1	210.1	210.1	210.1
60°	188.4	186.7	186.7	186.7	186.7
62.5°	168.2	168.2	168.2	168.2	168.2
65°	149.7	149.7	149.7	149.7	149.7
67.5°	131.2	129.5	131.2	131.2	129.5
70°	112.7	111.0	112.7	112.7	112.7
72.5°	94.2	94.2	94.2	95.9	94.2
75°	77.4	79.1	79.1	79.1	77.4
77.5°	62.3	63.8	62.3	62.3	62.3
80°	48.7	47.0	47.0	47.0	48.7
82.5°	33.6	33.6	33.6	33.6	33.6
85°	20.2	20.2	20.2	20.2	20.2
87.5°	8.5	8.5	8.5	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

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— 0°-180°    - - 45°-225°    - - - - 90°-270°

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