

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: P580393

Luminaire Tested: **HCC4W30D010MW-HM43040940-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580393  
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: HCC4W30D010MW-HM43040940-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

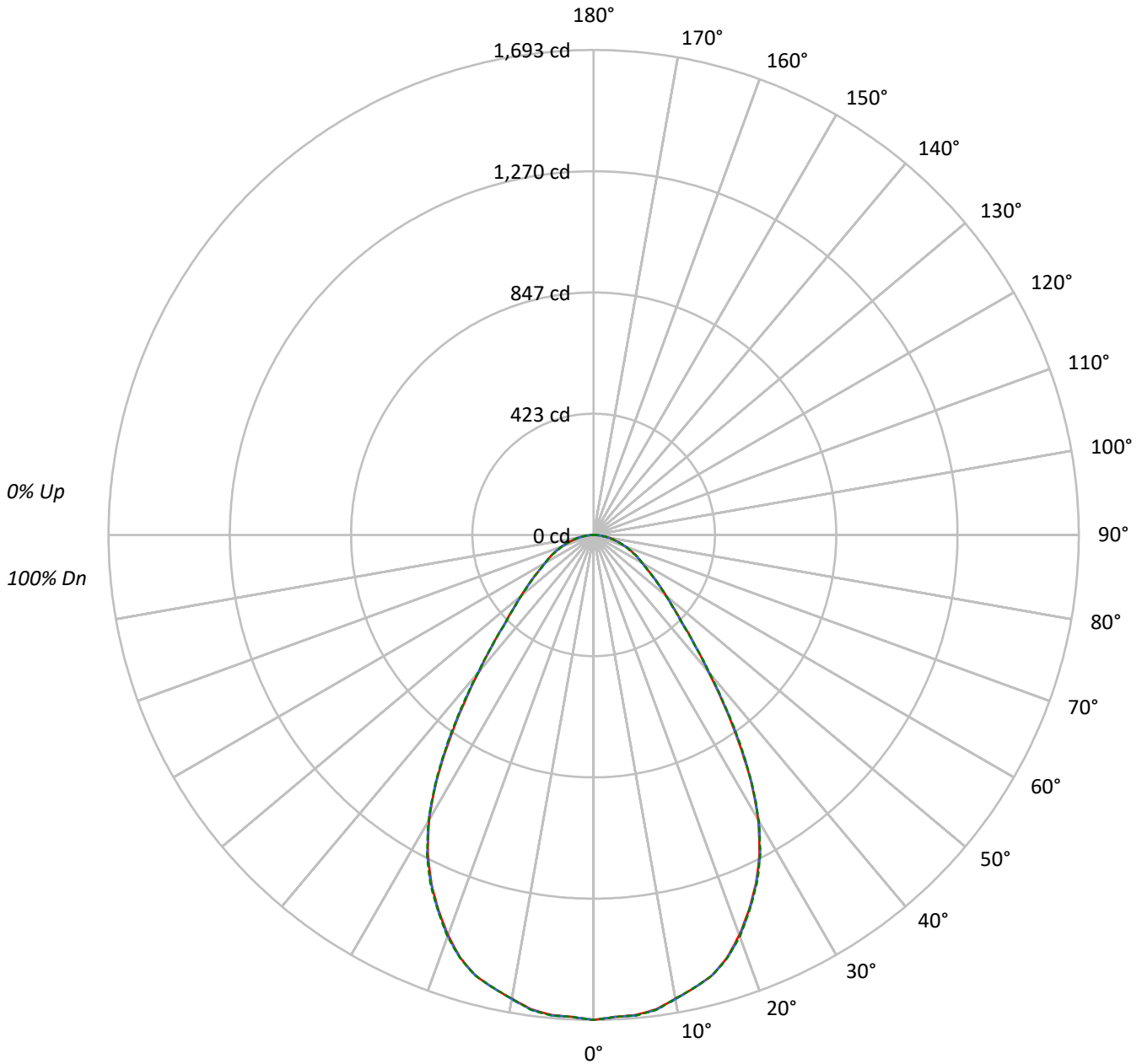
Lumens per Lamp: N/A  
Luminaire Lumens: 2612.2 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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	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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89					89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78					78			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69					69			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56					56			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51					51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46					46			
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42					42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39					39			
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36					36			

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

	0°	45°	90°
0°	208824	208824	208824
5°	208322	208532	208532
10°	205896	206134	205896
15°	203434	203434	203434
20°	195094	195541	195764
25°	182465	182710	183186
30°	163506	164005	164005
35°	132734	133788	134059
40°	100184	100748	101022
45°	76735	76421	76421
50°	63228	62883	62883
55°	54256	53891	53891
60°	48425	48006	48006
65°	45530	45530	45530
70°	42339	42339	42339
75°	38459	39222	38459
80°	36155	34877	36155
85°	29720	29720	29720



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.5	6.1
10°-20°	446.4	17.1
20°-30°	613.4	23.5
30°-40°	551.5	21.1
40°-50°	348.5	13.3
50°-60°	227.5	8.7
60°-70°	154.2	5.9
70°-80°	86.8	3.3
80°-90°	24.4	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°	1219.3	46.7
0°-40°	1770.8	67.8
0°-60°	2346.8	89.8
0°-90°	2612.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2612.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1693	1693	1693	1693	1693	
5°	1682	1682	1684	1684	1684	159
15°	1593	1593	1593	1593	1593	446
25°	1341	1342	1342	1346	1346	612
35°	882	885	888	892	890	549
45°	440	438	438	438	438	349
55°	252	252	251	252	251	228
65°	156	156	156	156	156	155
75°	81	82	82	82	81	86
85°	21	21	21	21	21	25
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1693.0	1693.0	1693.0	1693.0	1693.0
2.5°	1684.2	1684.2	1684.2	1684.2	1684.2
5°	1682.5	1682.5	1684.2	1684.2	1684.2
7.5°	1670.2	1672.0	1672.0	1672.0	1672.0
10°	1643.9	1643.9	1645.8	1645.8	1643.9
12.5°	1619.5	1619.5	1619.5	1621.2	1619.5
15°	1593.1	1593.1	1593.1	1593.1	1593.1
17.5°	1547.5	1549.3	1549.3	1549.3	1549.3
20°	1486.3	1489.7	1489.7	1491.4	1491.4
22.5°	1416.1	1417.9	1419.6	1421.4	1419.6
25°	1340.7	1342.5	1342.5	1346.0	1346.0
27.5°	1253.1	1254.9	1258.4	1258.4	1258.4
30°	1148.0	1149.7	1151.5	1151.5	1151.5
32.5°	1023.5	1023.5	1027.0	1028.7	1027.0
35°	881.5	885.0	888.5	892.1	890.3
37.5°	746.6	750.1	751.9	751.9	753.6
40°	622.2	625.7	625.7	629.2	627.4
42.5°	524.1	522.3	522.3	525.8	524.1
45°	439.9	438.1	438.1	438.1	438.1
47.5°	378.6	376.9	376.9	376.9	376.9
50°	329.5	327.7	327.7	327.7	327.7
52.5°	289.2	287.4	287.4	287.4	285.7
55°	252.3	252.3	250.6	252.3	250.6
57.5°	219.1	219.1	219.1	219.1	219.1
60°	196.3	194.6	194.6	194.6	194.6
62.5°	175.3	175.3	175.3	175.3	175.3
65°	156.0	156.0	156.0	156.0	156.0
67.5°	136.7	134.9	136.7	136.7	134.9
70°	117.4	115.6	117.4	117.4	117.4
72.5°	98.1	98.1	98.1	99.9	98.1
75°	80.7	82.3	82.3	82.3	80.7
77.5°	64.9	66.6	64.9	64.9	64.9
80°	50.9	49.1	49.1	49.1	50.9
82.5°	35.1	35.1	35.1	35.1	35.1
85°	21.0	21.0	21.0	21.0	21.0
87.5°	8.8	8.8	8.8	8.8	8.8
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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