

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: P580213

Luminaire Tested: **HCC4S25D010MW-HM40525930-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580213  
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: HCC4S25D010MW-HM40525930-41WDW  
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**

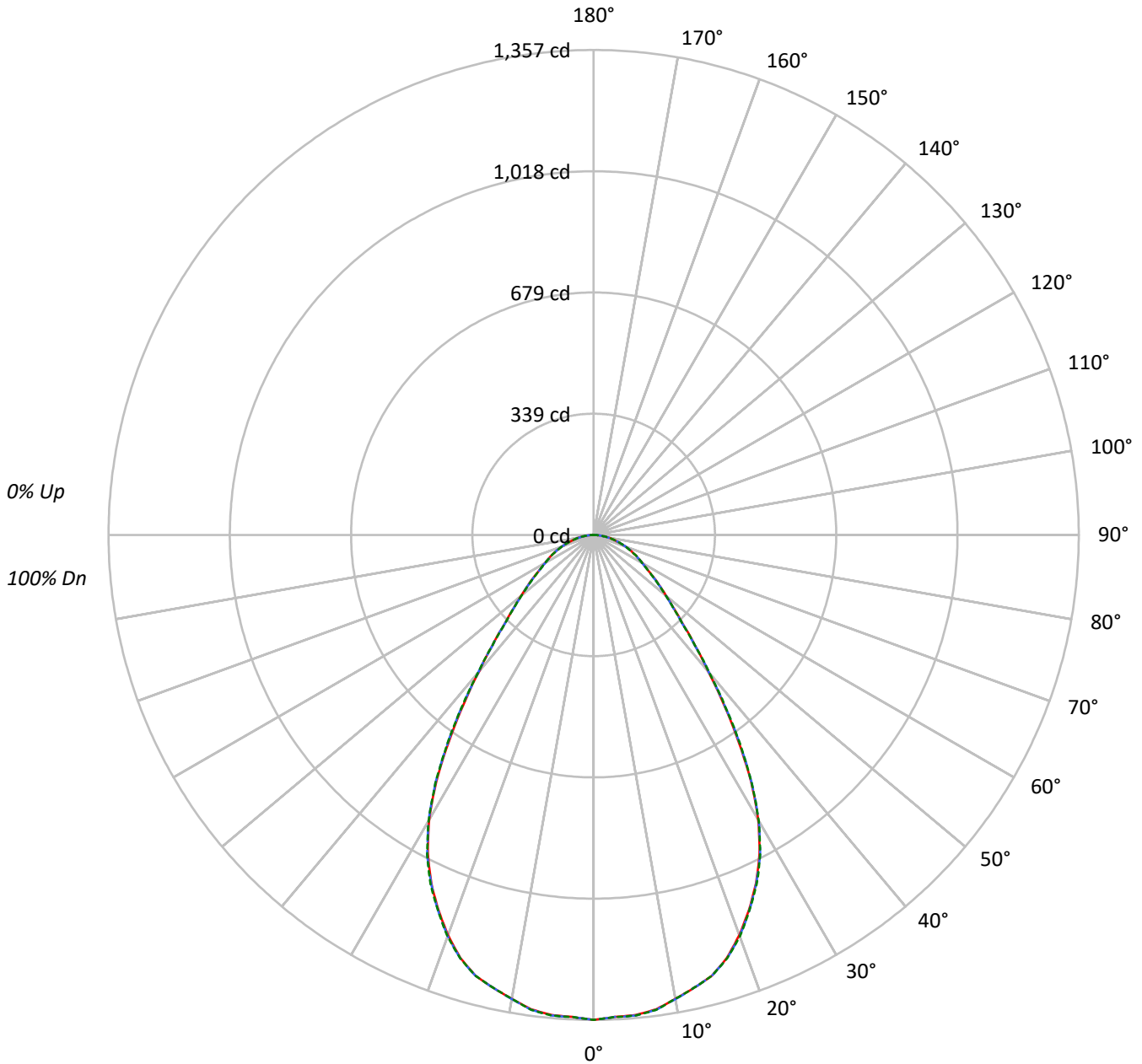
Lumens per Lamp: N/A  
Luminaire Lumens: 2093.7 lumens  
Efficiency: N/A  
Efficacy: 78.1 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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									
RC	80									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	68	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°	167392	167392	167392
5°	166979	167165	167165
10°	165052	165215	165052
15°	163069	163069	163069
20°	156372	156740	156923
25°	146263	146440	146835
30°	131047	131460	131460
35°	106398	107256	107452
40°	80299	80750	80991
45°	61507	61262	61262
50°	50679	50410	50410
55°	43504	43181	43181
60°	38829	38459	38459
65°	36483	36483	36483
70°	33972	33972	33972
75°	30786	31454	30786
80°	28981	27916	28981
85°	23776	23776	23776



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.9	6.1
10°-20°	357.8	17.1
20°-30°	491.7	23.5
30°-40°	442.1	21.1
40°-50°	279.3	13.3
50°-60°	182.4	8.7
60°-70°	123.5	5.9
70°-80°	69.5	3.3
80°-90°	19.5	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°	977.3	46.7
0°-40°	1419.4	67.8
0°-60°	1881.1	89.8
0°-90°	2093.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2093.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1357	1357	1357	1357	1357	
5°	1349	1349	1350	1350	1350	128
15°	1277	1277	1277	1277	1277	358
25°	1075	1076	1076	1079	1079	490
35°	707	710	712	715	714	440
45°	353	351	351	351	351	280
55°	202	202	201	202	201	183
65°	125	125	125	125	125	124
75°	65	66	66	66	65	69
85°	17	17	17	17	17	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1357.1	1357.1	1357.1	1357.1	1357.1
2.5°	1350.1	1350.1	1350.1	1350.1	1350.1
5°	1348.6	1348.6	1350.1	1350.1	1350.1
7.5°	1338.8	1340.2	1340.2	1340.2	1340.2
10°	1317.8	1317.8	1319.1	1319.1	1317.8
12.5°	1298.0	1298.0	1298.0	1299.5	1298.0
15°	1277.0	1277.0	1277.0	1277.0	1277.0
17.5°	1240.4	1241.9	1241.9	1241.9	1241.9
20°	1191.3	1194.1	1194.1	1195.5	1195.5
22.5°	1135.1	1136.5	1137.9	1139.3	1137.9
25°	1074.7	1076.0	1076.0	1078.9	1078.9
27.5°	1004.5	1005.8	1008.6	1008.6	1008.6
30°	920.1	921.6	923.0	923.0	923.0
32.5°	820.4	820.4	823.3	824.6	823.3
35°	706.6	709.5	712.3	715.1	713.6
37.5°	598.5	601.3	602.7	602.7	604.1
40°	498.7	501.5	501.5	504.3	503.0
42.5°	420.0	418.6	418.6	421.5	420.0
45°	352.6	351.2	351.2	351.2	351.2
47.5°	303.5	302.0	302.0	302.0	302.0
50°	264.1	262.7	262.7	262.7	262.7
52.5°	231.8	230.4	230.4	230.4	229.0
55°	202.3	202.3	200.8	202.3	200.8
57.5°	175.6	175.6	175.6	175.6	175.6
60°	157.4	155.9	155.9	155.9	155.9
62.5°	140.4	140.4	140.4	140.4	140.4
65°	125.0	125.0	125.0	125.0	125.0
67.5°	109.6	108.2	109.6	109.6	108.2
70°	94.2	92.7	94.2	94.2	94.2
72.5°	78.7	78.7	78.7	80.0	78.7
75°	64.6	66.0	66.0	66.0	64.6
77.5°	51.9	53.4	51.9	51.9	51.9
80°	40.8	39.3	39.3	39.3	40.8
82.5°	28.1	28.1	28.1	28.1	28.1
85°	16.8	16.8	16.8	16.8	16.8
87.5°	7.0	7.0	7.0	7.0	7.0
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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