

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: P580249

Luminaire Tested: **HCC4S25D010MW-HM40525940-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580249  
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-HM40525940-41WDW  
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**

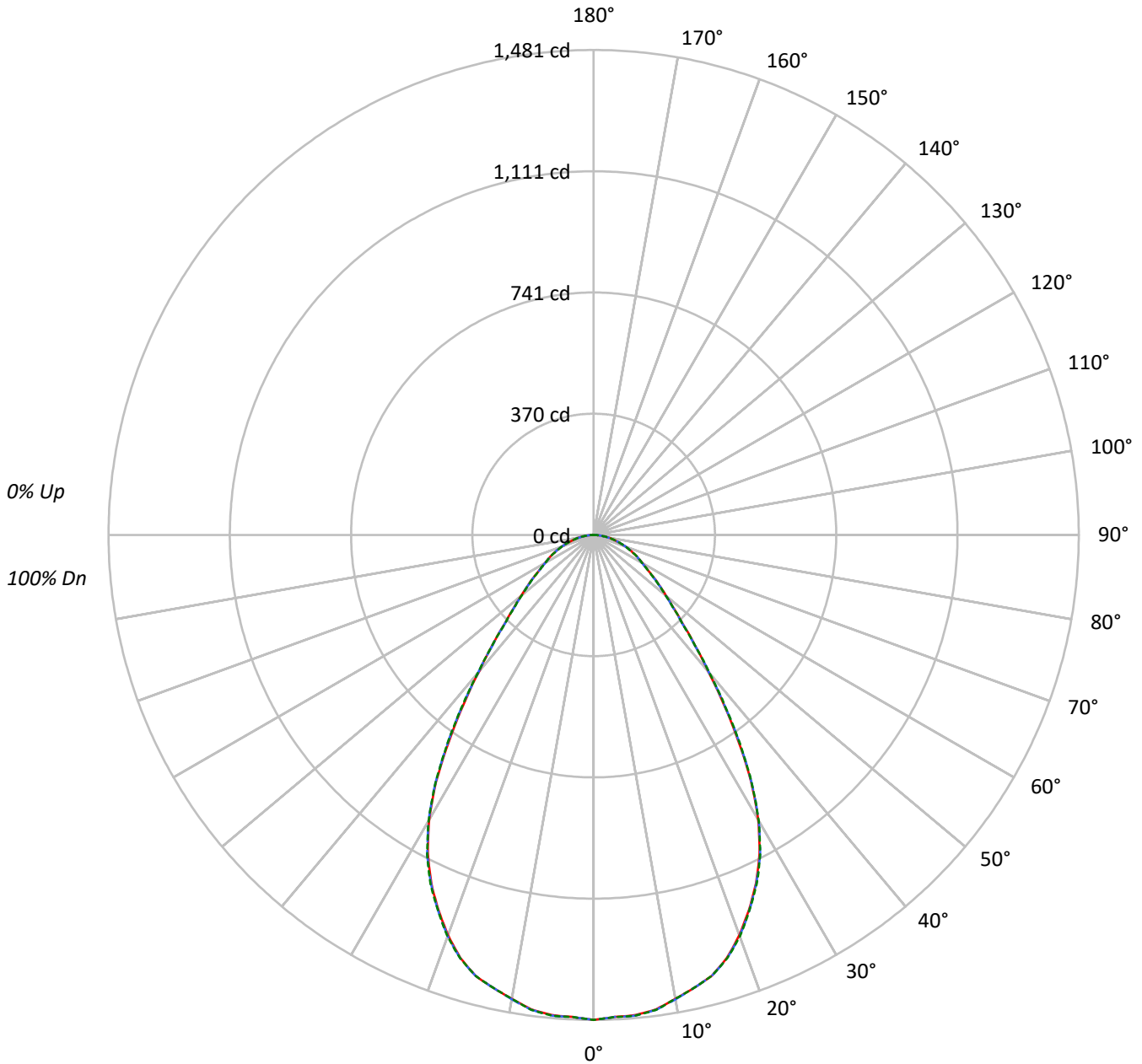
Lumens per Lamp: N/A  
Luminaire Lumens: 2285.4 lumens  
Efficiency: N/A  
Efficacy: 85.3 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	182700	182700	182700
5°	182258	182456	182456
10°	180132	180333	180132
15°	177984	177984	177984
20°	170680	171073	171283
25°	159642	159846	160254
30°	143054	143481	143481
35°	116125	117059	117285
40°	87641	88156	88382
45°	67141	66862	66862
50°	55303	55035	55035
55°	47482	47160	47160
60°	42357	42012	42012
65°	39839	39839	39839
70°	37038	37038	37038
75°	33646	34313	33646
80°	31609	30473	31609
85°	26040	26040	26040



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.6	6.1
10°-20°	390.5	17.1
20°-30°	536.6	23.5
30°-40°	482.5	21.1
40°-50°	304.9	13.3
50°-60°	199.1	8.7
60°-70°	134.9	5.9
70°-80°	75.9	3.3
80°-90°	21.3	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°	1066.7	46.7
0°-40°	1549.3	67.8
0°-60°	2053.3	89.8
0°-90°	2285.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2285.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1481	1481	1481	1481	1481	
5°	1472	1472	1474	1474	1474	139
15°	1394	1394	1394	1394	1394	390
25°	1173	1174	1174	1178	1178	535
35°	771	774	777	780	779	480
45°	385	383	383	383	383	305
55°	221	221	219	221	219	200
65°	136	136	136	136	136	135
75°	71	72	72	72	71	76
85°	18	18	18	18	18	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1481.2	1481.2	1481.2	1481.2	1481.2
2.5°	1473.6	1473.6	1473.6	1473.6	1473.6
5°	1472.0	1472.0	1473.6	1473.6	1473.6
7.5°	1461.3	1462.8	1462.8	1462.8	1462.8
10°	1438.2	1438.2	1439.8	1439.8	1438.2
12.5°	1416.8	1416.8	1416.8	1418.4	1416.8
15°	1393.8	1393.8	1393.8	1393.8	1393.8
17.5°	1353.9	1355.5	1355.5	1355.5	1355.5
20°	1300.3	1303.3	1303.3	1304.9	1304.9
22.5°	1239.0	1240.4	1242.0	1243.5	1242.0
25°	1173.0	1174.5	1174.5	1177.5	1177.5
27.5°	1096.4	1097.8	1100.9	1100.9	1100.9
30°	1004.4	1005.8	1007.4	1007.4	1007.4
32.5°	895.5	895.5	898.6	900.0	898.6
35°	771.2	774.4	777.4	780.5	778.9
37.5°	653.2	656.3	657.8	657.8	659.3
40°	544.3	547.5	547.5	550.5	548.9
42.5°	458.5	456.9	456.9	460.0	458.5
45°	384.9	383.3	383.3	383.3	383.3
47.5°	331.2	329.7	329.7	329.7	329.7
50°	288.2	286.8	286.8	286.8	286.8
52.5°	253.0	251.4	251.4	251.4	250.0
55°	220.8	220.8	219.3	220.8	219.3
57.5°	191.7	191.7	191.7	191.7	191.7
60°	171.7	170.3	170.3	170.3	170.3
62.5°	153.3	153.3	153.3	153.3	153.3
65°	136.5	136.5	136.5	136.5	136.5
67.5°	119.6	118.1	119.6	119.6	118.1
70°	102.7	101.2	102.7	102.7	102.7
72.5°	85.9	85.9	85.9	87.4	85.9
75°	70.6	72.0	72.0	72.0	70.6
77.5°	56.8	58.3	56.8	56.8	56.8
80°	44.5	42.9	42.9	42.9	44.5
82.5°	30.7	30.7	30.7	30.7	30.7
85°	18.4	18.4	18.4	18.4	18.4
87.5°	7.7	7.7	7.7	7.7	7.7
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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