

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: P581419

Luminaire Tested: **HCC4S07D010SL-HM40525827-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581419  
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: HCC4S07D010SL-HM40525827-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

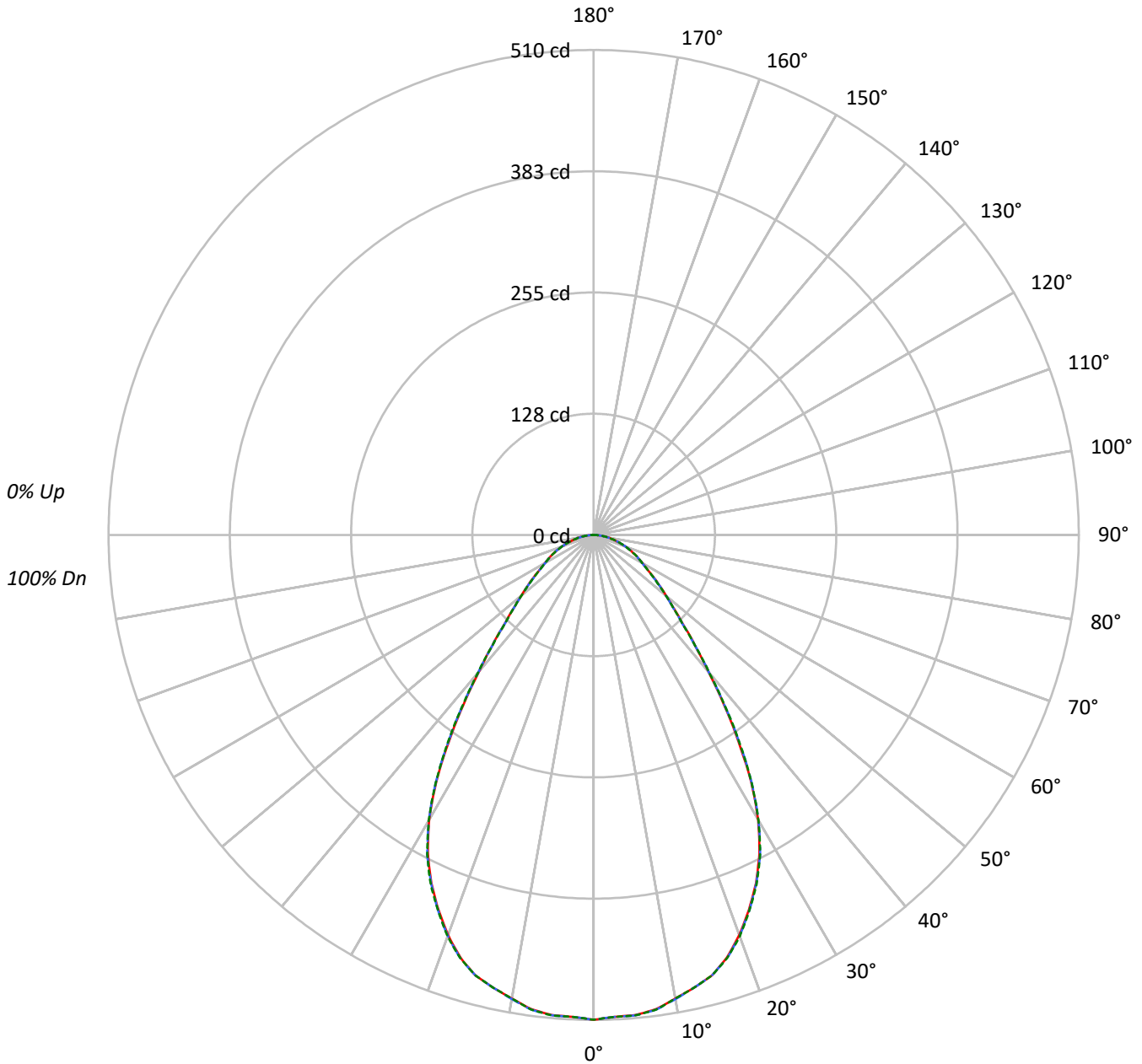
Lumens per Lamp: N/A  
Luminaire Lumens: 786.7 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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					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	67	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°	62882	62882	62882
5°	62750	62800	62800
10°	61998	62073	61998
15°	61269	61269	61269
20°	58753	58884	58963
25°	54956	55024	55174
30°	49237	49380	49380
35°	39978	40279	40370
40°	30158	30352	30416
45°	23113	23026	23026
50°	19036	18940	18940
55°	16344	16215	16215
60°	14579	14456	14456
65°	13717	13717	13717
70°	12767	12767	12767
75°	11533	11819	11533
80°	10939	10513	10939
85°	9057	9057	9057



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.0	6.1
10°-20°	134.4	17.1
20°-30°	184.7	23.5
30°-40°	166.1	21.1
40°-50°	105.0	13.3
50°-60°	68.5	8.7
60°-70°	46.4	5.9
70°-80°	26.1	3.3
80°-90°	7.4	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°	367.2	46.7
0°-40°	533.3	67.8
0°-60°	706.8	89.8
0°-90°	786.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	786.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	510	510	510	510	510	
5°	507	507	507	507	507	48
15°	480	480	480	480	480	134
25°	404	404	404	405	405	184
35°	266	266	268	269	268	165
45°	132	132	132	132	132	105
55°	76	76	75	76	75	69
65°	47	47	47	47	47	47
75°	24	25	25	25	24	26
85°	6	6	6	6	6	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	509.8	509.8	509.8	509.8	509.8
2.5°	507.2	507.2	507.2	507.2	507.2
5°	506.8	506.8	507.2	507.2	507.2
7.5°	503.0	503.6	503.6	503.6	503.6
10°	495.0	495.0	495.6	495.6	495.0
12.5°	487.7	487.7	487.7	488.2	487.7
15°	479.8	479.8	479.8	479.8	479.8
17.5°	466.0	466.6	466.6	466.6	466.6
20°	447.6	448.6	448.6	449.2	449.2
22.5°	426.5	427.0	427.5	428.0	427.5
25°	403.8	404.3	404.3	405.4	405.4
27.5°	377.4	377.9	379.0	379.0	379.0
30°	345.7	346.3	346.7	346.7	346.7
32.5°	308.3	308.3	309.3	309.9	309.3
35°	265.5	266.5	267.5	268.7	268.1
37.5°	224.9	225.9	226.5	226.5	226.9
40°	187.3	188.5	188.5	189.5	188.9
42.5°	157.8	157.3	157.3	158.3	157.8
45°	132.5	132.0	132.0	132.0	132.0
47.5°	114.0	113.5	113.5	113.5	113.5
50°	99.2	98.7	98.7	98.7	98.7
52.5°	87.1	86.6	86.6	86.6	86.0
55°	76.0	76.0	75.4	76.0	75.4
57.5°	66.0	66.0	66.0	66.0	66.0
60°	59.1	58.6	58.6	58.6	58.6
62.5°	52.8	52.8	52.8	52.8	52.8
65°	47.0	47.0	47.0	47.0	47.0
67.5°	41.2	40.6	41.2	41.2	40.6
70°	35.4	34.8	35.4	35.4	35.4
72.5°	29.6	29.6	29.6	30.0	29.6
75°	24.2	24.8	24.8	24.8	24.2
77.5°	19.6	20.0	19.6	19.6	19.6
80°	15.4	14.8	14.8	14.8	15.4
82.5°	10.6	10.6	10.6	10.6	10.6
85°	6.4	6.4	6.4	6.4	6.4
87.5°	2.6	2.6	2.6	2.6	2.6
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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