

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: P581456

Luminaire Tested: **HCC4S07D010BZ-HM40525835-41RWWC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581456  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S07D010BZ-HM40525835-41RWWC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

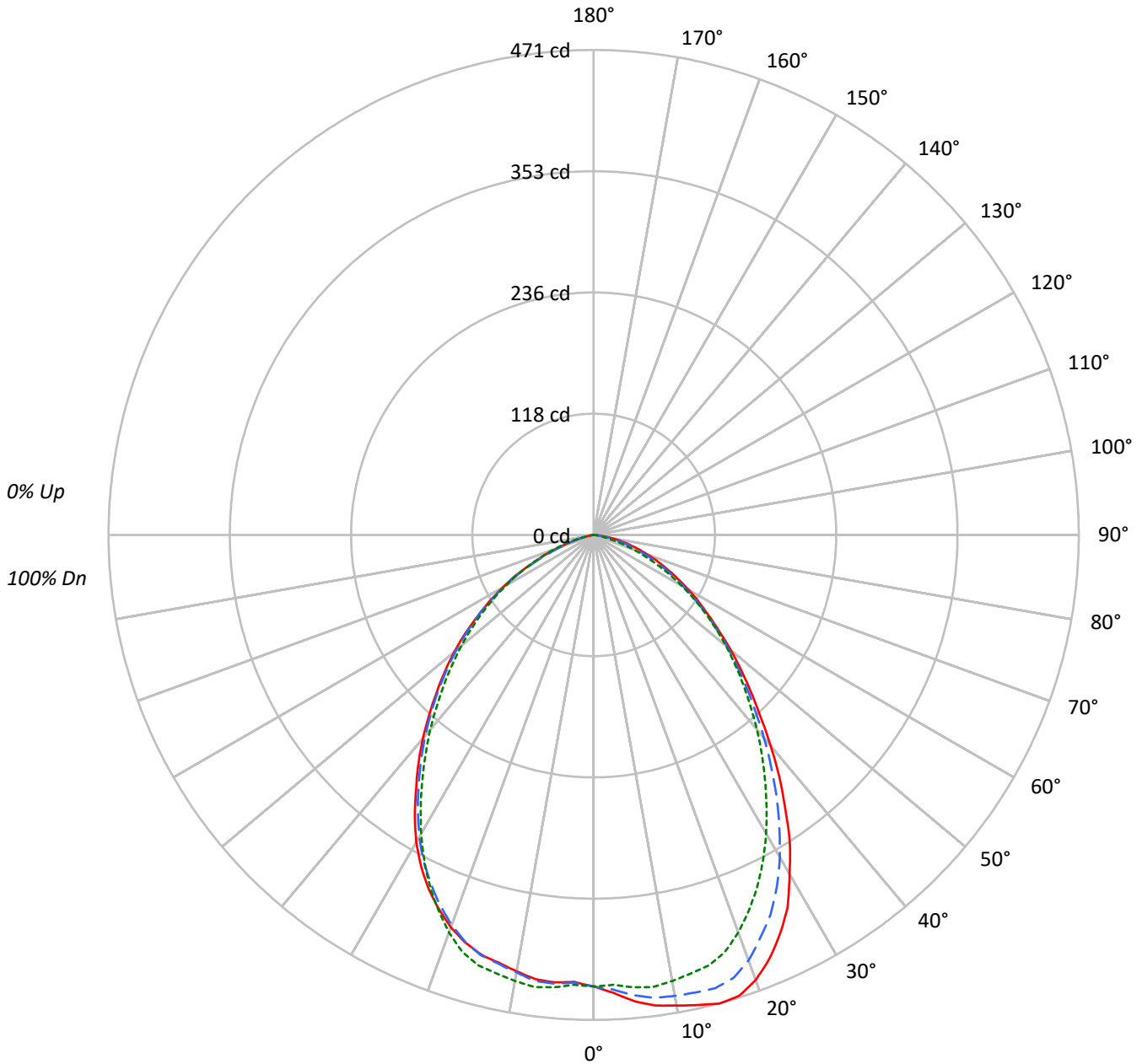
Lumens per Lamp: N/A  
Luminaire Lumens: 914.0 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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	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	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88				
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76				76				
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67				67				
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58				58				
5	81	70	62	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52				52				
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46				46				
7	70	58	50	44	69	57	49	44	56	49	44	54	48	44	53	47	43	41				41				
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37				37				
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34				34				
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31				31				

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

	0°	90°	180°
0°	54099	54099	54099
5°	56287	54603	54009
10°	58128	55084	53894
15°	60171	55254	53888
20°	60380	53909	53227
25°	58236	51213	51622
30°	54194	47699	49052
35°	48817	43637	45248
40°	43040	39707	41526
45°	37644	35777	37539
50°	33332	32180	33888
55°	29311	28408	29569
60°	26174	24274	25014
65°	23028	19730	19350
70°	20124	14534	13271
75°	16632	8721	7053
80°	12644	3410	2131
85°	5802	849	849



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.3	4.6
10°-20°	123.5	13.5
20°-30°	178.8	19.6
30°-40°	188.6	20.6
40°-50°	163.3	17.9
50°-60°	120.9	13.2
60°-70°	69.7	7.6
70°-80°	24.3	2.7
80°-90°	2.5	0.3
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°	344.6	37.7
0°-40°	533.2	58.3
0°-60°	817.4	89.4
0°-90°	914.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	914.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	439	439	439	439	439	
5°	455	449	441	437	436	44
15°	471	456	433	423	422	133
25°	428	407	376	374	379	196
35°	324	309	290	296	300	203
45°	216	210	205	213	215	167
55°	136	133	132	137	138	123
65°	79	74	68	64	66	79
75°	35	30	18	15	15	38
85°	4	2	1	1	1	6
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	438.6	438.6	438.6	438.6	438.6	438.6	438.6	438.6	438.6
2.5°	445.2	443.9	442.1	439.8	437.4	435.6	435.1	434.5	434.5
5°	454.6	452.2	448.7	443.9	441.0	439.2	437.4	436.2	436.2
7.5°	461.1	458.7	453.4	446.9	442.8	439.2	436.9	435.1	435.1
10°	464.1	461.1	454.6	446.3	439.8	435.1	431.5	430.3	430.3
12.5°	467.6	464.1	455.2	444.5	436.2	430.3	426.7	425.6	425.6
15°	471.2	467.0	455.8	443.4	432.7	425.6	422.7	422.0	422.0
17.5°	469.4	464.1	451.1	436.2	424.4	417.3	414.3	414.3	414.9
20°	460.0	454.6	439.8	423.2	410.7	405.5	403.1	404.2	405.5
22.5°	445.8	439.2	423.2	407.2	394.2	389.4	389.4	391.2	393.0
25°	427.9	422.0	406.6	388.9	376.3	372.8	373.9	377.0	379.3
27.5°	407.7	401.3	385.2	368.7	356.2	354.5	357.4	361.5	362.8
30°	380.5	375.2	361.5	345.5	334.9	334.3	338.4	341.4	344.4
32.5°	354.5	348.6	335.5	320.1	312.4	313.0	317.7	321.3	323.1
35°	324.2	318.9	309.4	296.9	289.8	291.0	296.3	299.9	300.5
37.5°	295.8	292.2	282.7	273.2	267.9	270.3	275.1	279.2	279.2
40°	267.3	264.4	257.2	249.6	246.6	249.6	254.2	257.9	257.9
42.5°	240.0	238.3	232.4	227.0	225.2	229.4	233.5	236.5	235.9
45°	215.8	213.9	209.8	205.6	205.1	209.3	212.8	214.5	215.2
47.5°	193.8	192.7	189.0	186.1	186.1	190.3	193.2	195.1	195.6
50°	173.7	172.5	169.6	167.2	167.7	171.8	174.2	176.0	176.6
52.5°	153.5	152.9	150.6	147.6	149.4	152.4	155.3	156.5	157.0
55°	136.3	136.3	133.4	131.0	132.1	135.2	136.9	137.5	137.5
57.5°	121.0	120.3	116.8	114.4	114.9	117.9	119.1	119.7	119.7
60°	106.1	105.5	102.0	98.4	98.4	100.1	100.7	101.4	101.4
62.5°	91.8	91.3	87.2	84.2	83.0	82.4	82.4	83.5	85.9
65°	78.9	78.3	74.1	69.3	67.6	65.8	64.1	65.2	66.3
67.5°	67.0	65.8	61.7	57.5	53.4	50.4	47.5	49.2	51.6
70°	55.8	54.5	49.8	45.1	40.3	35.6	33.2	35.6	36.8
72.5°	45.1	43.8	39.1	34.4	28.4	23.7	23.1	23.7	24.4
75°	34.9	34.4	29.6	24.4	18.3	14.8	14.8	14.8	14.8
77.5°	26.1	24.9	20.1	15.4	10.7	8.3	7.7	7.7	7.7
80°	17.8	16.6	12.4	8.9	4.8	3.5	3.5	3.0	3.0
82.5°	10.1	9.4	6.5	3.5	1.8	1.1	1.1	1.1	1.1
85°	4.1	3.5	2.4	1.1	0.6	0.6	0.6	0.6	0.6
87.5°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



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

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