

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: P584529

Luminaire Tested: **HCC8W40D010BZ-HM82555830-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584529  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W40D010BZ-HM82555830-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

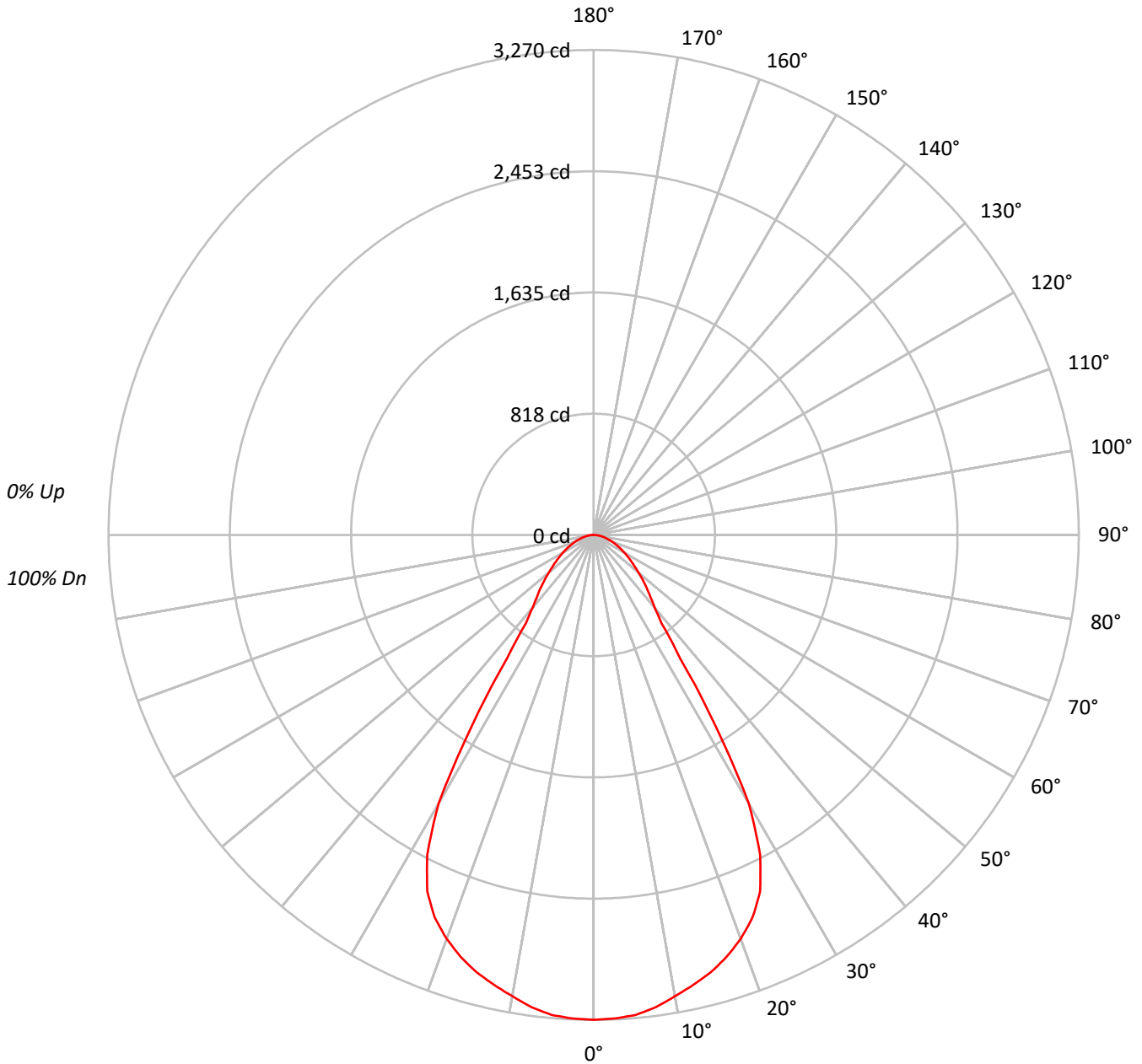
Lumens per Lamp: N/A  
Luminaire Lumens: 4045.1 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
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									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	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	100	100	100	100	100	100	100	100	100	100																
	1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90	90	90	90	90	90	90	90	90	90	90																
	2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81	81	81	81	81	81	81	81	81	81	81	81																
	3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73	73	73	73	73	73	73	73	73	73	73	73																
	4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67	67	67	67	67	67	67	67	67	67	67	67																
	5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61	61	61	61	61	61	61	61	61	61	61	61																
	6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56	56	56	56	56	56	56	56	56	56	56	56																
	7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52	52	52	52	52	52	52	52	52	52	52	52																
	8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48	48	48	48	48	48	48	48	48	48	48	48																
	9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45	45	45	45	45	45	45	45	45	45	45	45																
	10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42	42	42	42	42	42	42	42	42	42	42	42																

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

	0°	
0°	100829	
5°	100558	
10°	98880	
15°	97439	
20°	95099	
25°	90273	
30°	74461	
35°	38337	
40°	25666	
45°	22010	
50°	18992	
55°	16569	
60°	14721	
65°	13236	
70°	11982	
75°	10806	
80°	9660	
85°	9659	



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	307.2	7.6
10°-20°	858.7	21.2
20°-30°	1189.8	29.4
30°-40°	714.6	17.7
40°-50°	391.2	9.7
50°-60°	277.9	6.9
60°-70°	180.4	4.5
70°-80°	96.4	2.4
80°-90°	28.8	0.7
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°	2355.7	58.2
0°-40°	3070.3	75.9
0°-60°	3739.4	92.4
0°-90°	4045.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4045.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3270	
5°	3249	307
15°	3052	859
25°	2653	1190
35°	1018	715
45°	505	391
55°	308	278
65°	181	180
75°	91	96
85°	27	29
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3269.8
2.5°	3263.7
5°	3248.6
7.5°	3212.3
10°	3157.9
12.5°	3106.6
15°	3052.2
17.5°	2982.6
20°	2898.0
22.5°	2795.3
25°	2653.2
27.5°	2429.6
30°	2091.2
32.5°	1532.1
35°	1018.4
37.5°	752.4
40°	637.6
42.5°	565.1
45°	504.7
47.5°	447.2
50°	395.9
52.5°	347.5
55°	308.2
57.5°	272.0
60°	238.7
62.5°	208.5
65°	181.4
67.5°	154.1
70°	132.9
72.5°	108.8
75°	90.7
77.5°	72.5
80°	54.4
82.5°	39.3
85°	27.3
87.5°	12.1
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)