

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: P585192

Luminaire Tested: **HCC8W80D010BZ-HM86080827-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585192  
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: HCC8W80D010BZ-HM86080827-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

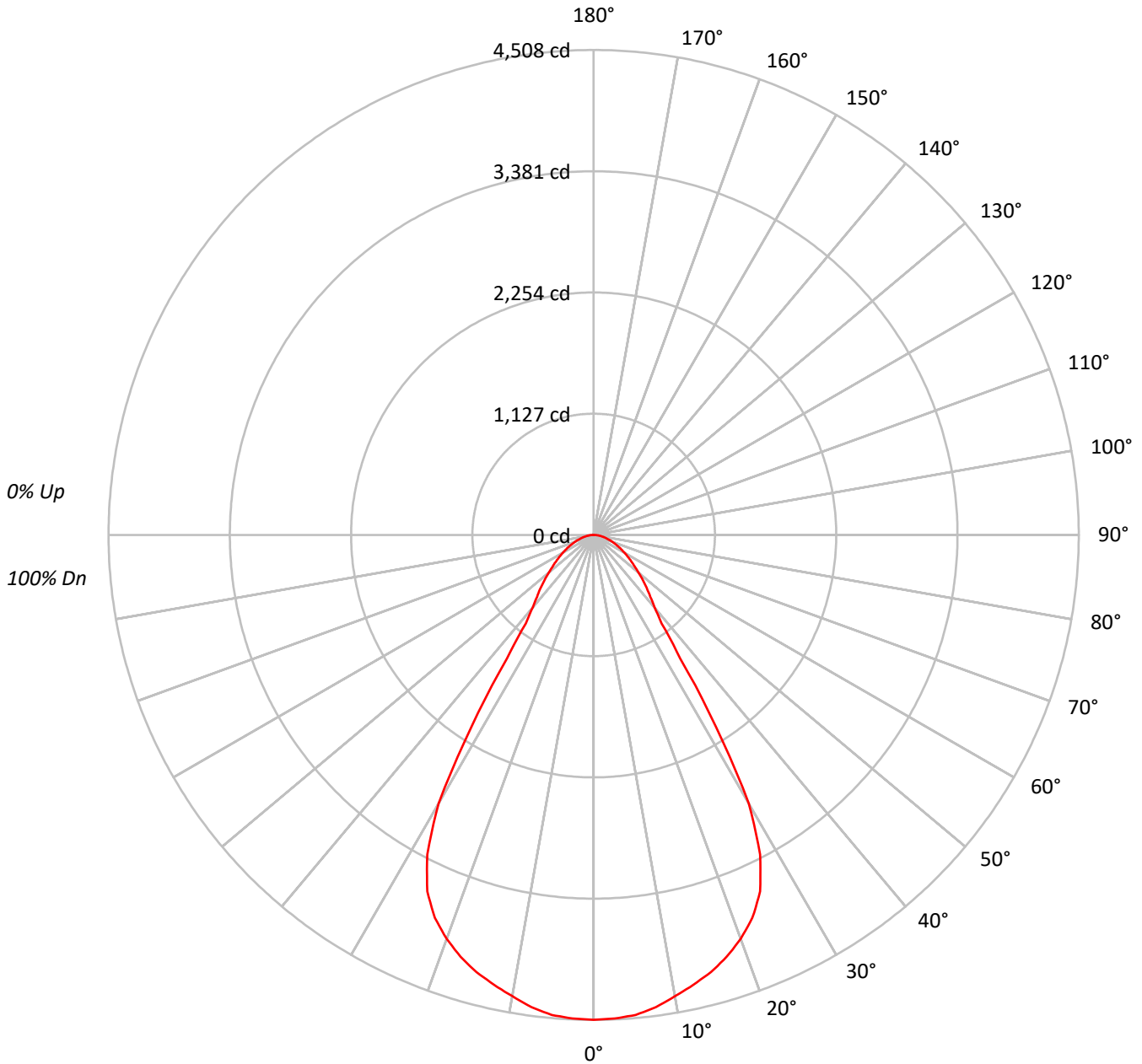
Lumens per Lamp: N/A  
Luminaire Lumens: 5576.4 lumens  
Efficiency: N/A  
Efficacy: 79.7 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (Ain): 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									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																
	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°	138998
	5°	138628
	10°	136314
	15°	134324
	20°	131104
	25°	124450
	30°	102647
	35°	52852
	40°	35383
	45°	30339
	50°	26184
	55°	22843
	60°	20296
	65°	18234
	70°	16526
	75°	14893
	80°	13318
	85°	13268



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	423.4	7.6
10°-20°	1183.8	21.2
20°-30°	1640.2	29.4
30°-40°	985.2	17.7
40°-50°	539.3	9.7
50°-60°	383.1	6.9
60°-70°	248.7	4.5
70°-80°	132.9	2.4
80°-90°	39.6	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°	3247.5	58.2
0°-40°	4232.7	75.9
0°-60°	5155.1	92.4
0°-90°	5576.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5576.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4508	
5°	4478	423
15°	4208	1184
25°	3658	1640
35°	1404	985
45°	696	539
55°	425	383
65°	250	249
75°	125	133
85°	38	40
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4507.6
2.5°	4499.3
5°	4478.5
7.5°	4428.4
10°	4353.4
12.5°	4282.7
15°	4207.6
17.5°	4111.8
20°	3995.2
22.5°	3853.5
25°	3657.7
27.5°	3349.4
30°	2882.8
32.5°	2112.1
35°	1404.0
37.5°	1037.3
40°	879.0
42.5°	779.0
45°	695.7
47.5°	616.6
50°	545.8
52.5°	479.0
55°	424.9
57.5°	374.9
60°	329.1
62.5°	287.5
65°	249.9
67.5°	212.5
70°	183.3
72.5°	149.9
75°	125.0
77.5°	100.0
80°	75.0
82.5°	54.1
85°	37.5
87.5°	16.6
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)