

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: P585259

Luminaire Tested: **HCC8W80D010MB-HM86080927-81NDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585259  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W80D010MB-HM86080927-81NDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

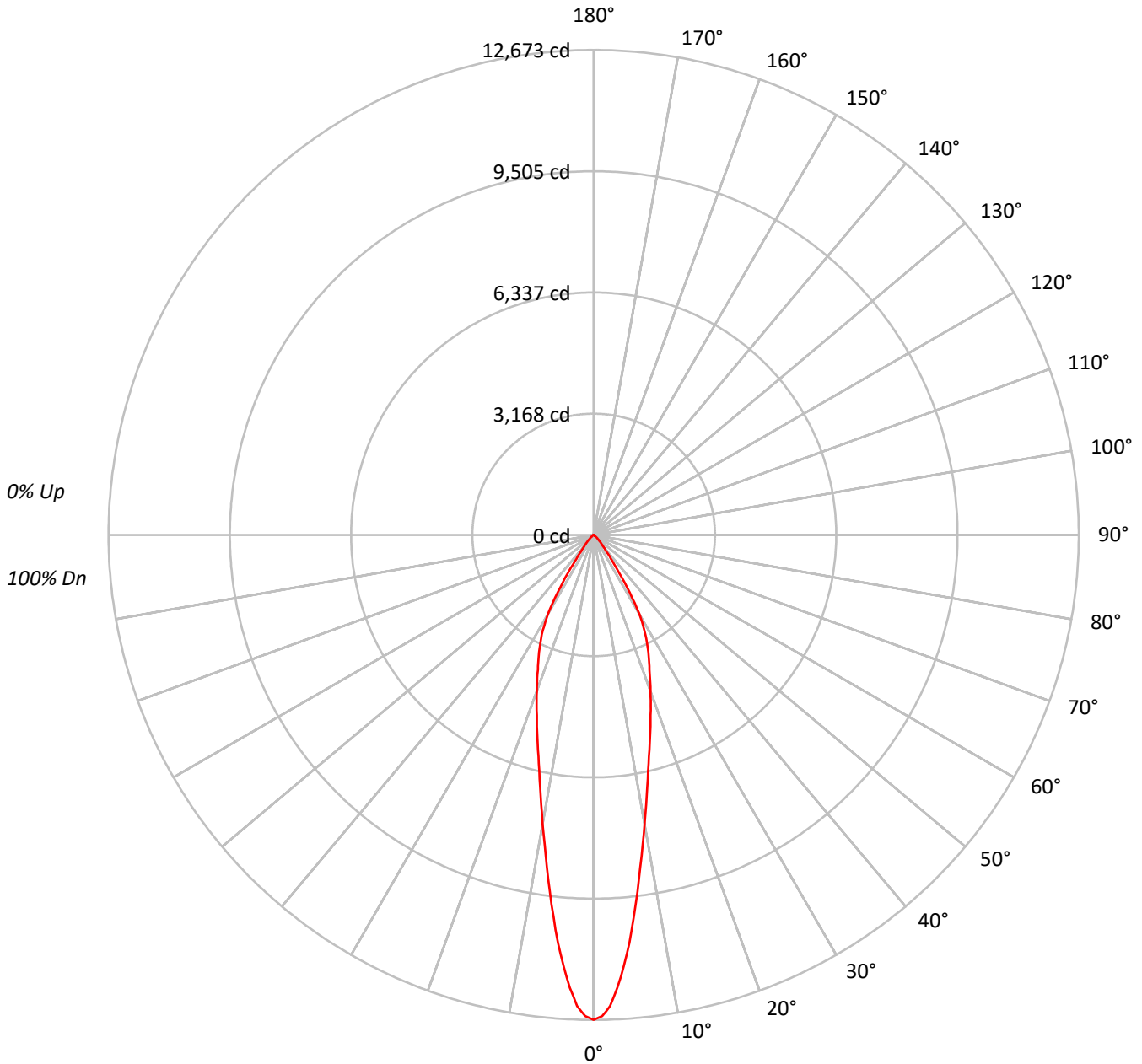
Lumens per Lamp: N/A  
Luminaire Lumens: 4911.5 lumens  
Efficiency: N/A  
Efficacy: 70.2 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 70  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68
8	84	76	70	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59

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

	0°
0°	390798
5°	331088
10°	240223
15°	180397
20°	142340
25°	114814
30°	85082
35°	34467
40°	14536
45°	7793
50°	3502
55°	1763
60°	1122
65°	795
70°	658
75°	441
80°	657
85°	1309



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	918.4	18.7
10°-20°	1587.1	32.3
20°-30°	1534.5	31.2
30°-40°	673.9	13.7
40°-50°	145.7	3.0
50°-60°	32.7	0.7
60°-70°	11.2	0.2
70°-80°	4.4	0.1
80°-90°	3.5	0.1
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°	4040.0	82.3
0°-40°	4713.9	96.0
0°-60°	4892.3	99.6
0°-90°	4911.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4911.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	12673	
5°	10696	918
15°	5651	1587
25°	3374	1535
35°	916	674
45°	179	146
55°	33	33
65°	11	11
75°	4	4
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	12673.3
1°	12578.5
2°	12319.5
3°	11852.5
4°	11294.4
5°	10696.1
6°	10043.1
7°	9386.4
8°	8769.9
9°	8197.2
10°	7671.9
11°	7175.7
12°	6730.7
13°	6325.7
14°	5968.2
15°	5650.8
17.5°	4939.5
20°	4337.6
22.5°	3808.6
25°	3374.5
27.5°	2933.0
30°	2389.5
32.5°	1623.3
35°	915.6
37.5°	539.9
40°	361.1
42.5°	255.4
45°	178.7
47.5°	116.8
50°	73.0
52.5°	43.8
55°	32.8
57.5°	25.6
60°	18.2
62.5°	14.6
65°	10.9
67.5°	7.3
70°	7.3
72.5°	3.7
75°	3.7
77.5°	3.7
80°	3.7
82.5°	3.7

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**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0

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Report Generated By 670245859 / DESKTOP-T8S5UU9



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— 0°-180°

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85°	3.7
87.5°	3.7

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(END OF REPORT)