

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: P584445

Luminaire Tested: **HCC8W35D010SL-HM82555927-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584445  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W35D010SL-HM82555927-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

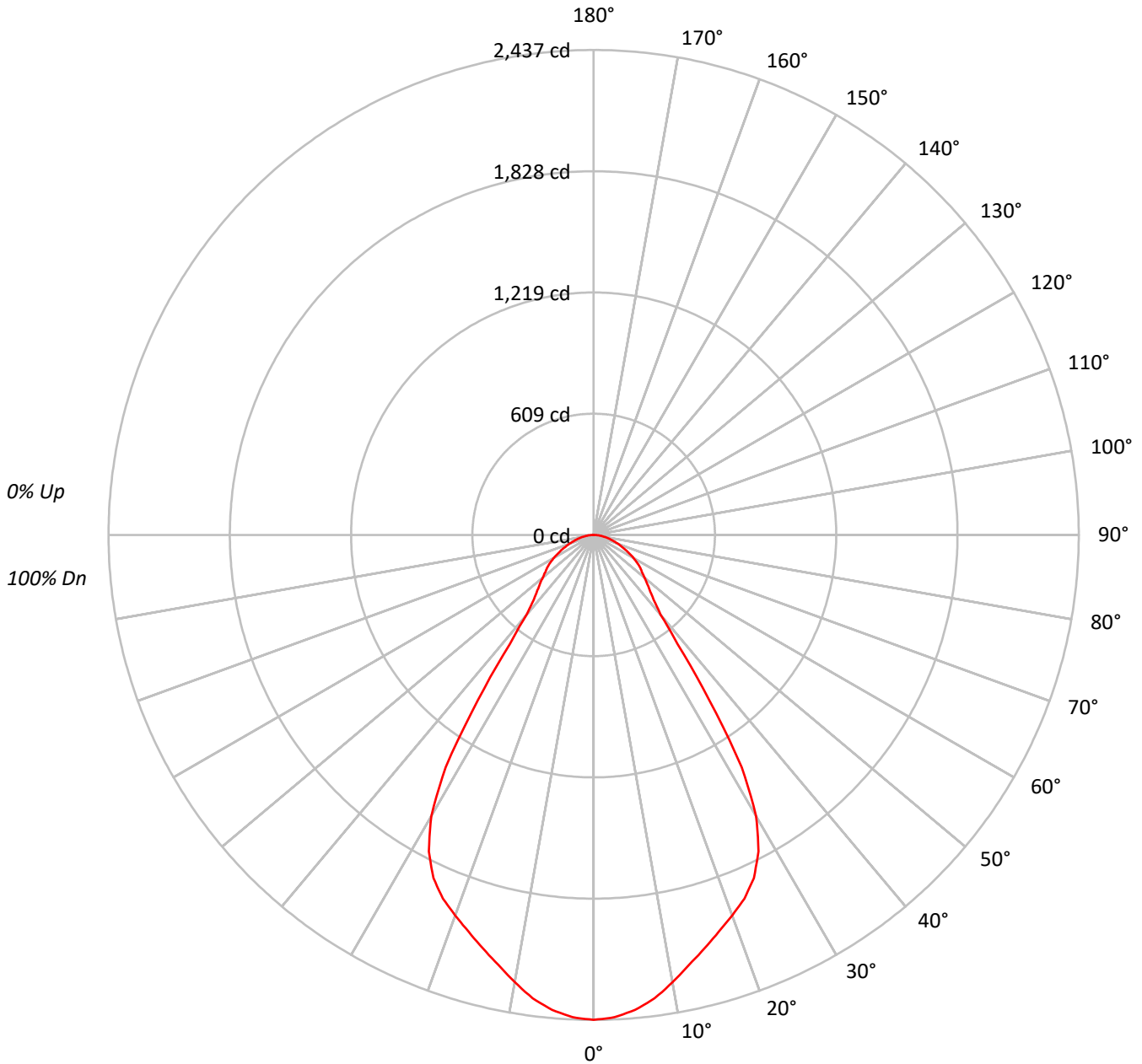
Lumens per Lamp: N/A  
Luminaire Lumens: 3201.3 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.7  
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



TEST NUMBER: P584445  
CATALOG NUMBER: HCC8W35D010SL-HM82555927-81PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P584445

CATALOG NUMBER: HCC8W35D010SL-HM82555927-81PSMDW

**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	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89					89			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71					71			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64					64			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53					53			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45					45			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39					39			

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

	0°
0°	75145
5°	74166
10°	71454
15°	68656
20°	66756
25°	64748
30°	58103
35°	38088
40°	21061
45°	17553
50°	16004
55°	15279
60°	14209
65°	12878
70°	11640
75°	10520
80°	9554
85°	9164



TEST NUMBER: P584445  
 CATALOG NUMBER: HCC8W35D010SL-HM82555927-81PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.1	7.0
10°-20°	606.8	19.0
20°-30°	863.5	27.0
30°-40°	639.1	20.0
40°-50°	316.5	9.9
50°-60°	252.6	7.9
60°-70°	175.4	5.5
70°-80°	94.5	3.0
80°-90°	27.8	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°	1695.4	53.0
0°-40°	2334.5	72.9
0°-60°	2903.6	90.7
0°-90°	3201.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3201.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2437	
5°	2396	225
15°	2151	607
25°	1903	864
35°	1012	639
45°	402	317
55°	284	253
65°	176	175
75°	88	94
85°	26	28
90°	0	



TEST NUMBER: P584445  
CATALOG NUMBER: HCC8W35D010SL-HM82555927-81PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2436.9
2.5°	2426.2
5°	2396.0
7.5°	2348.7
10°	2282.0
12.5°	2213.1
15°	2150.6
17.5°	2090.3
20°	2034.3
22.5°	1978.4
25°	1903.0
27.5°	1793.3
30°	1631.8
32.5°	1384.2
35°	1011.8
37.5°	691.0
40°	523.2
42.5°	447.8
45°	402.5
47.5°	366.0
50°	333.6
52.5°	305.7
55°	284.2
57.5°	258.3
60°	230.4
62.5°	202.3
65°	176.5
67.5°	150.7
70°	129.1
72.5°	107.6
75°	88.3
77.5°	71.0
80°	53.8
82.5°	38.7
85°	25.9
87.5°	10.8
90°	0.0

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)