

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: P584373

Luminaire Tested: **HCC8S35D010SL-HM82555827-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584373  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S35D010SL-HM82555827-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

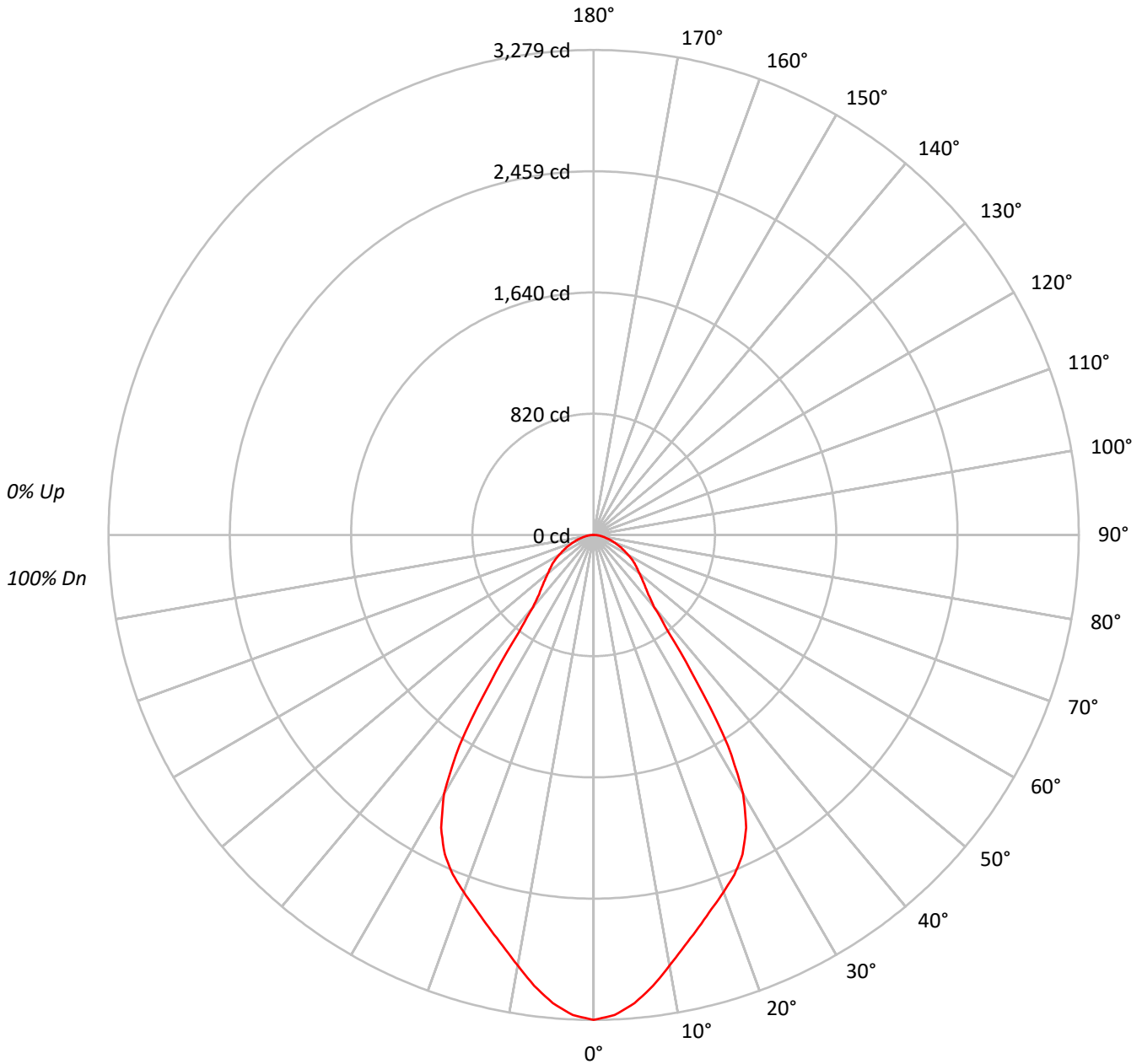
Lumens per Lamp: N/A  
Luminaire Lumens: 3954.4 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P584373  
CATALOG NUMBER: HCC8S35D010SL-HM82555827-81MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P584373

CATALOG NUMBER: HCC8S35D010SL-HM82555827-81MDW

**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			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			

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

	0°
0°	101112
5°	98360
10°	92555
15°	87632
20°	84296
25°	81042
30°	71975
35°	45836
40°	25581
45°	21425
50°	19343
55°	18236
60°	16633
65°	15002
70°	13244
75°	11771
80°	10424
85°	9447



TEST NUMBER: P584373  
 CATALOG NUMBER: HCC8S35D010SL-HM82555827-81MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.2	7.5
10°-20°	774.1	19.6
20°-30°	1080.0	27.3
30°-40°	777.1	19.7
40°-50°	385.1	9.7
50°-60°	301.3	7.6
60°-70°	204.0	5.2
70°-80°	105.9	2.7
80°-90°	30.5	0.8
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°	2150.4	54.4
0°-40°	2927.5	74.0
0°-60°	3614.0	91.4
0°-90°	3954.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3954.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3279	
5°	3178	296
15°	2745	774
25°	2382	1080
35°	1218	777
45°	491	385
55°	339	301
65°	206	204
75°	99	106
85°	27	31
90°	0	



TEST NUMBER: P584373  
CATALOG NUMBER: HCC8S35D010SL-HM82555827-81MDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3279.0
2.5°	3249.7
5°	3177.6
7.5°	3076.1
10°	2955.9
12.5°	2843.8
15°	2745.0
17.5°	2651.5
20°	2568.8
22.5°	2486.0
25°	2381.9
27.5°	2232.4
30°	2021.4
32.5°	1690.3
35°	1217.6
37.5°	830.5
40°	635.5
42.5°	547.4
45°	491.3
47.5°	443.3
50°	403.2
52.5°	368.5
55°	339.2
57.5°	304.4
60°	269.7
62.5°	234.9
65°	205.6
67.5°	176.2
70°	146.9
72.5°	122.8
75°	98.8
77.5°	77.4
80°	58.7
82.5°	42.8
85°	26.7
87.5°	13.3
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)