

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: P593307

Luminaire Tested: **HCC6S45D010MW-HM64560850-61NDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593307  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S45D010MW-HM64560850-61NDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

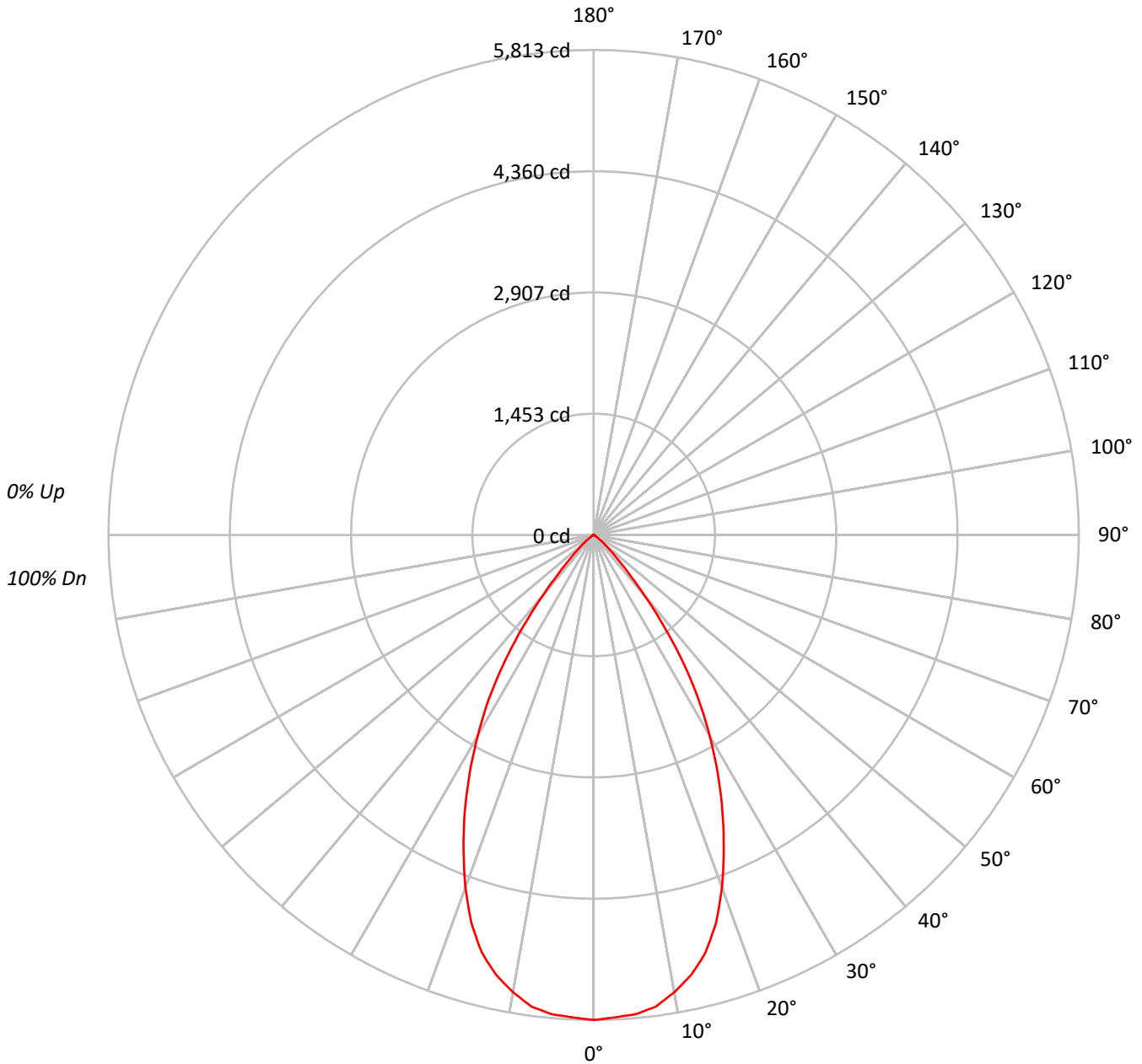
Lumens per Lamp: N/A  
Luminaire Lumens: 5205.9 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 44  
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	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	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93																					
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87																				
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81																				
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75																				
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70																				
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65																				
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	66	62	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61																				
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	59	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57																				
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54																				
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51																				

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

	0°
0°	318681
5°	317334
10°	309825
15°	294099
20°	262138
25°	220821
30°	175932
35°	125514
40°	67498
45°	28918
50°	13151
55°	4798
60°	2357
65°	1855
70°	1731
75°	763
80°	1137
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	544.4	10.5
10°-20°	1436.4	27.6
20°-30°	1663.7	32.0
30°-40°	1150.4	22.1
40°-50°	332.2	6.4
50°-60°	57.2	1.1
60°-70°	14.6	0.3
70°-80°	5.7	0.1
80°-90°	1.5	0.0
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°	3644.4	70.0
0°-40°	4794.8	92.1
0°-60°	5184.2	99.6
0°-90°	5205.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5205.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5813	
5°	5767	544
15°	5182	1436
25°	3651	1664
35°	1876	1150
45°	373	332
55°	50	57
65°	14	15
75°	4	6
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5813.2
2.5°	5788.1
5°	5766.6
7.5°	5702.0
10°	5565.8
12.5°	5400.7
15°	5182.0
17.5°	4873.6
20°	4493.4
22.5°	4073.8
25°	3650.7
27.5°	3216.8
30°	2779.3
32.5°	2341.8
35°	1875.5
37.5°	1391.4
40°	943.2
42.5°	595.3
45°	373.0
47.5°	240.2
50°	154.2
52.5°	93.3
55°	50.2
57.5°	28.7
60°	21.5
62.5°	17.9
65°	14.3
67.5°	10.8
70°	10.8
72.5°	7.2
75°	3.6
77.5°	3.6
80°	3.6
82.5°	3.6
85°	0.0
87.5°	0.0
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)