

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: P580117

Luminaire Tested: **HCC4S25D010BZ-HM40525827-41MDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S25D010BZ-HM40525827-41MDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

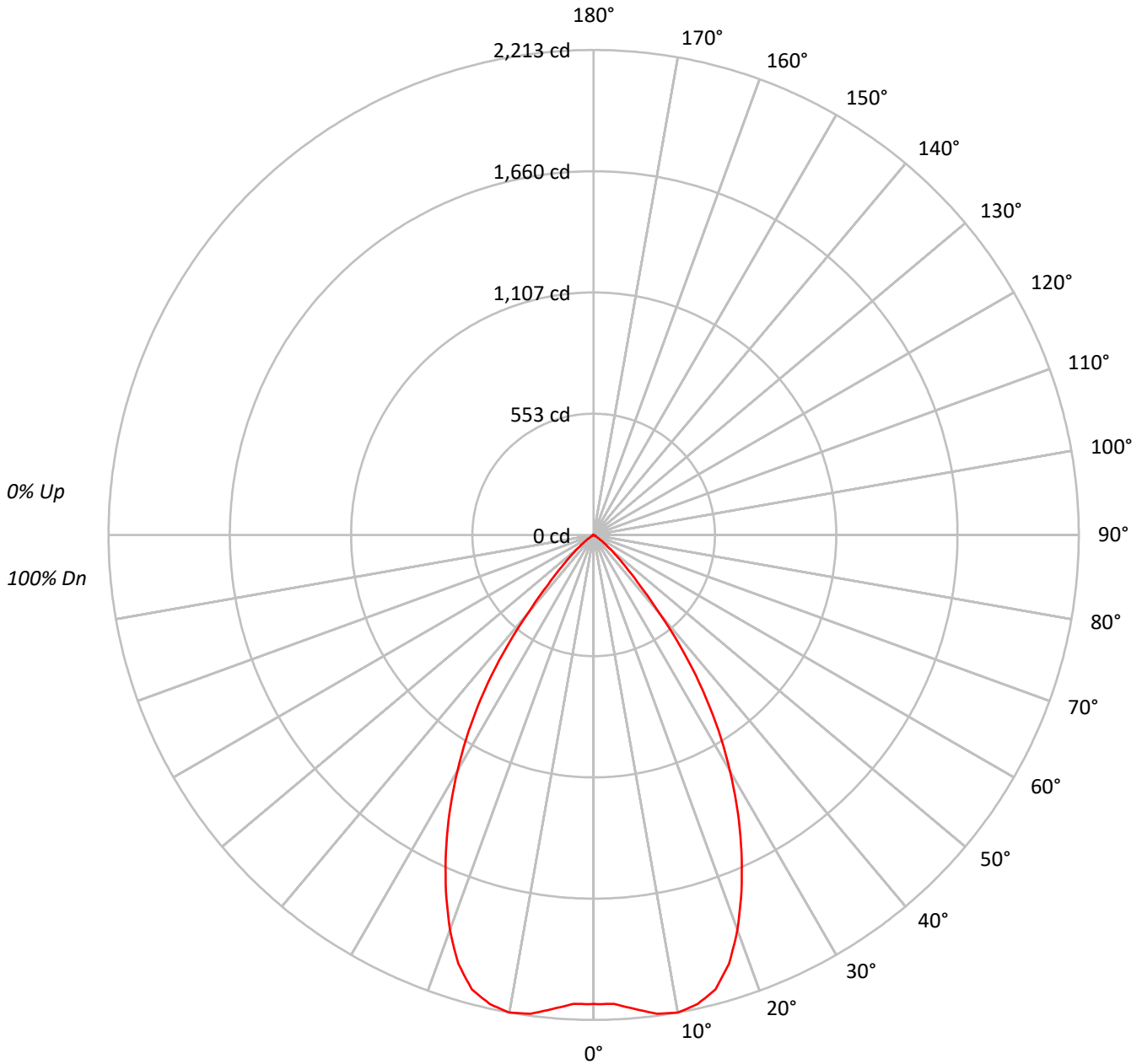
Lumens per Lamp: N/A
Luminaire Lumens: 2279.5 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.96
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): 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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93					93			
2	108	103	98	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86					86			
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80					80			
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74					74			
5	91	83	77	72	90	82	76	72	80	75	72	78	74	71	77	73	70	69					69			
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64					64			
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	60					60			
8	78	68	62	58	77	68	62	58	67	61	57	65	61	57	65	60	57	56					56			
9	74	64	58	54	73	64	58	54	63	57	54	62	57	54	61	57	53	52					52			
10	70	61	55	51	69	60	54	51	59	54	50	58	54	50	58	53	50	49					49			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	264034
5°	268868
10°	277175
15°	274101
20°	251694
25°	217129
30°	176952
35°	131017
40°	75162
45°	36335
50°	17289
55°	6043
60°	2196
65°	1284
70°	1046
75°	715
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.9	9.2
10°-20°	595.1	26.1
20°-30°	726.7	31.9
30°-40°	534.2	23.4
40°-50°	177.1	7.8
50°-60°	31.3	1.4
60°-70°	4.7	0.2
70°-80°	1.6	0.1
80°-90°	0.0	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°	1530.6	67.1
0°-40°	2064.9	90.6
0°-60°	2273.2	99.7
0°-90°	2279.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2279.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2141	
5°	2172	209
15°	2146	595
25°	1595	727
35°	870	534
45°	208	177
55°	28	31
65°	4	5
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2140.6
2.5°	2142.1
5°	2171.5
7.5°	2204.0
10°	2213.0
12.5°	2192.3
15°	2146.5
17.5°	2052.0
20°	1917.5
22.5°	1760.9
25°	1595.4
27.5°	1422.7
30°	1242.4
32.5°	1062.2
35°	870.1
37.5°	675.1
40°	466.8
42.5°	308.8
45°	208.3
47.5°	138.9
50°	90.1
52.5°	53.2
55°	28.1
57.5°	11.9
60°	8.9
62.5°	5.9
65°	4.4
67.5°	2.9
70°	2.9
72.5°	1.5
75°	1.5
77.5°	1.5
80°	0.0
82.5°	0.0
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)