

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: P580313

Luminaire Tested: **HCC4S30D010BZ-HM43040840-41WDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S30D010BZ-HM43040840-41WDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

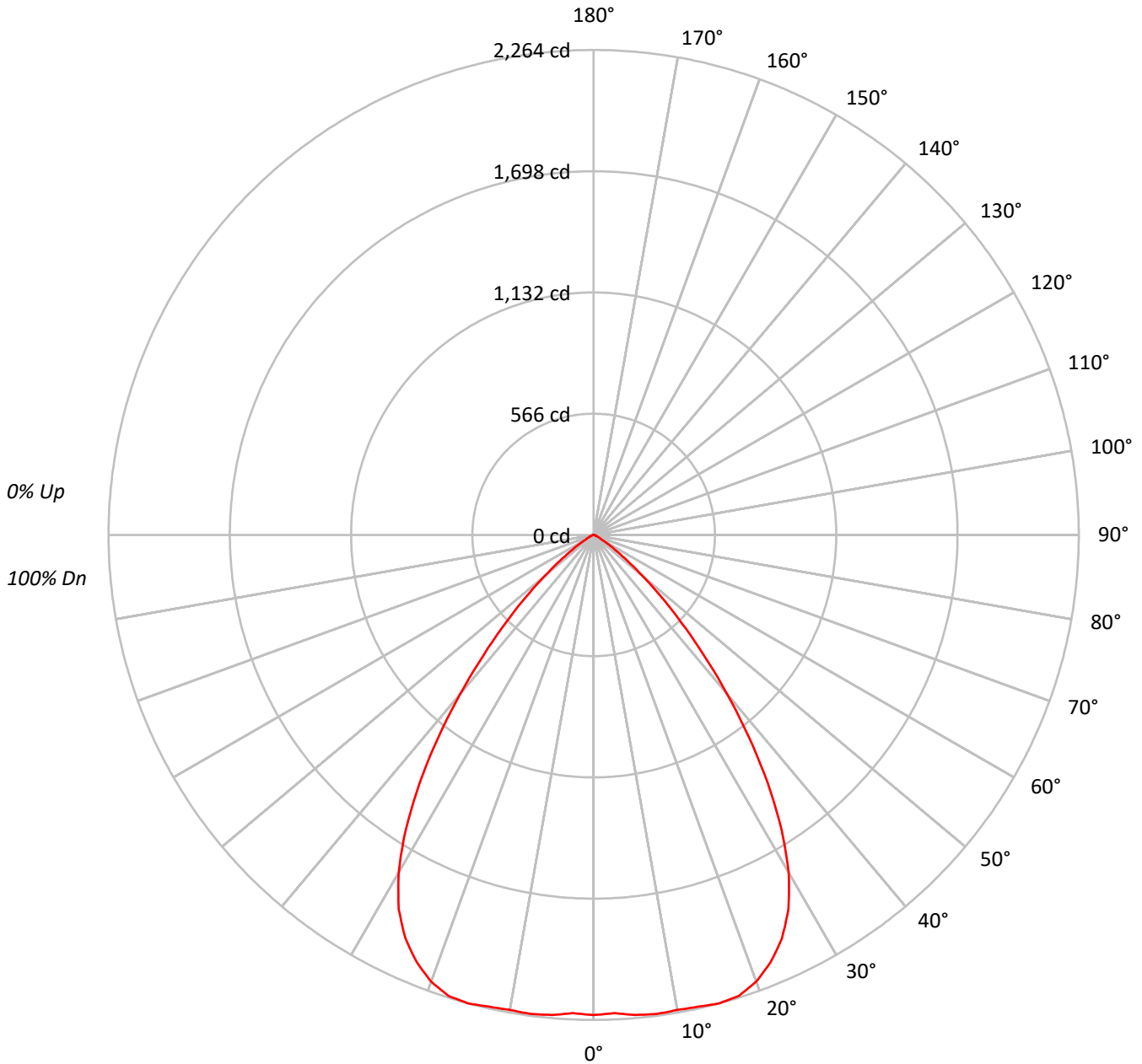
Lumens per Lamp: N/A
Luminaire Lumens: 3288.0 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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									
RC	80									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	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92																			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84																			
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76																			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69																			
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63																			
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58																			
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53																			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49																			
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45																			
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	276442
5°	278526
10°	281997
15°	289093
20°	291217
25°	282877
30°	259346
35°	213398
40°	155558
45°	100982
50°	56934
55°	27031
60°	10657
65°	6625
70°	4472
75°	2955
80°	1421
85°	2830



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.8	6.5
10°-20°	638.3	19.4
20°-30°	946.6	28.8
30°-40°	874.3	26.6
40°-50°	456.6	13.9
50°-60°	125.1	3.8
60°-70°	24.1	0.7
70°-80°	6.8	0.2
80°-90°	1.4	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°	1799.7	54.7
0°-40°	2674.0	81.3
0°-60°	3255.7	99.0
0°-90°	3288.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3288.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2241	
5°	2250	215
15°	2264	638
25°	2078	947
35°	1417	874
45°	579	457
55°	126	125
65°	23	24
75°	6	7
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2241.2
2.5°	2235.0
5°	2249.5
7.5°	2255.7
10°	2251.5
12.5°	2255.7
15°	2263.9
17.5°	2255.7
20°	2218.6
22.5°	2158.8
25°	2078.5
27.5°	1969.3
30°	1820.9
32.5°	1633.6
35°	1417.2
37.5°	1190.6
40°	966.1
42.5°	760.2
45°	578.9
47.5°	424.4
50°	296.7
52.5°	197.7
55°	125.7
57.5°	74.1
60°	43.2
62.5°	30.9
65°	22.7
67.5°	16.5
70°	12.4
72.5°	8.2
75°	6.2
77.5°	4.2
80°	2.0
82.5°	2.0
85°	2.0
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)