

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: P580329

Luminaire Tested: **HCC4S30D010BZ-HM43040927-41MDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580329
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S30D010BZ-HM43040927-41MDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

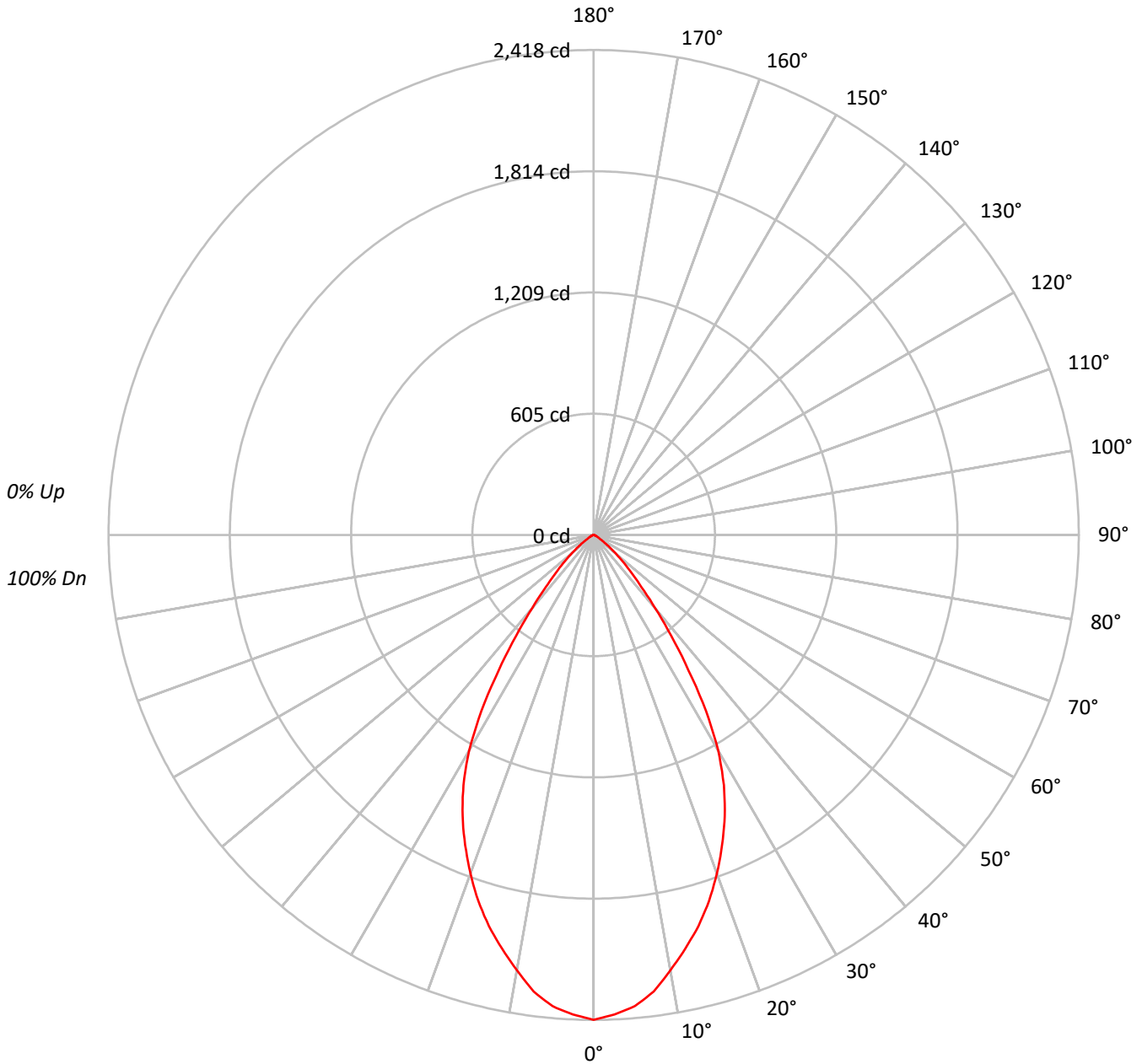
Lumens per Lamp: N/A
Luminaire Lumens: 2303.8 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P580329
CATALOG NUMBER: HCC4S30D010BZ-HM43040927-41MDH

Luminous Intensity Polar Plot





TEST NUMBER: P580329

CATALOG NUMBER: HCC4S30D010BZ-HM43040927-41MDH

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	100	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86	86	86	86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	79	79
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62	62	62	62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54	54	54	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51	51	51	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	47	47	47	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	298250
5°	292010
10°	275960
15°	257730
20°	235733
25°	210501
30°	176766
35°	124347
40°	76708
45°	45929
50°	27057
55°	13483
60°	6957
65°	4582
70°	2813
75°	2240
80°	1137
85°	2264



TEST NUMBER: P580329
 CATALOG NUMBER: HCC4S30D010BZ-HM43040927-41MDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.2	9.6
10°-20°	564.2	24.5
20°-30°	703.6	30.5
30°-40°	518.3	22.5
40°-50°	213.2	9.3
50°-60°	62.3	2.7
60°-70°	16.0	0.7
70°-80°	5.0	0.2
80°-90°	1.1	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°	1488.0	64.6
0°-40°	2006.3	87.1
0°-60°	2281.7	99.0
0°-90°	2303.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2303.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2418	
5°	2358	220
15°	2018	564
25°	1547	704
35°	826	518
45°	263	213
55°	63	62
65°	16	16
75°	5	5
85°	2	1
90°	0	



TEST NUMBER: P580329
CATALOG NUMBER: HCC4S30D010BZ-HM43040927-41MDH

CANDELA DISTRIBUTION (FULL):

0°	
0°	2418.0
2.5°	2392.9
5°	2358.4
7.5°	2295.7
10°	2203.3
12.5°	2112.4
15°	2018.3
17.5°	1913.4
20°	1795.9
22.5°	1673.6
25°	1546.7
27.5°	1405.6
30°	1241.1
32.5°	1042.0
35°	825.8
37.5°	634.6
40°	476.4
42.5°	352.6
45°	263.3
47.5°	194.4
50°	141.0
52.5°	97.1
55°	62.7
57.5°	37.6
60°	28.2
62.5°	20.4
65°	15.7
67.5°	10.9
70°	7.8
72.5°	6.3
75°	4.7
77.5°	3.2
80°	1.6
82.5°	1.6
85°	1.6
87.5°	0.0
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)