

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: P581419

Luminaire Tested: **HCC4S07D010BZ-HM40525827-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S07D010BZ-HM40525827-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

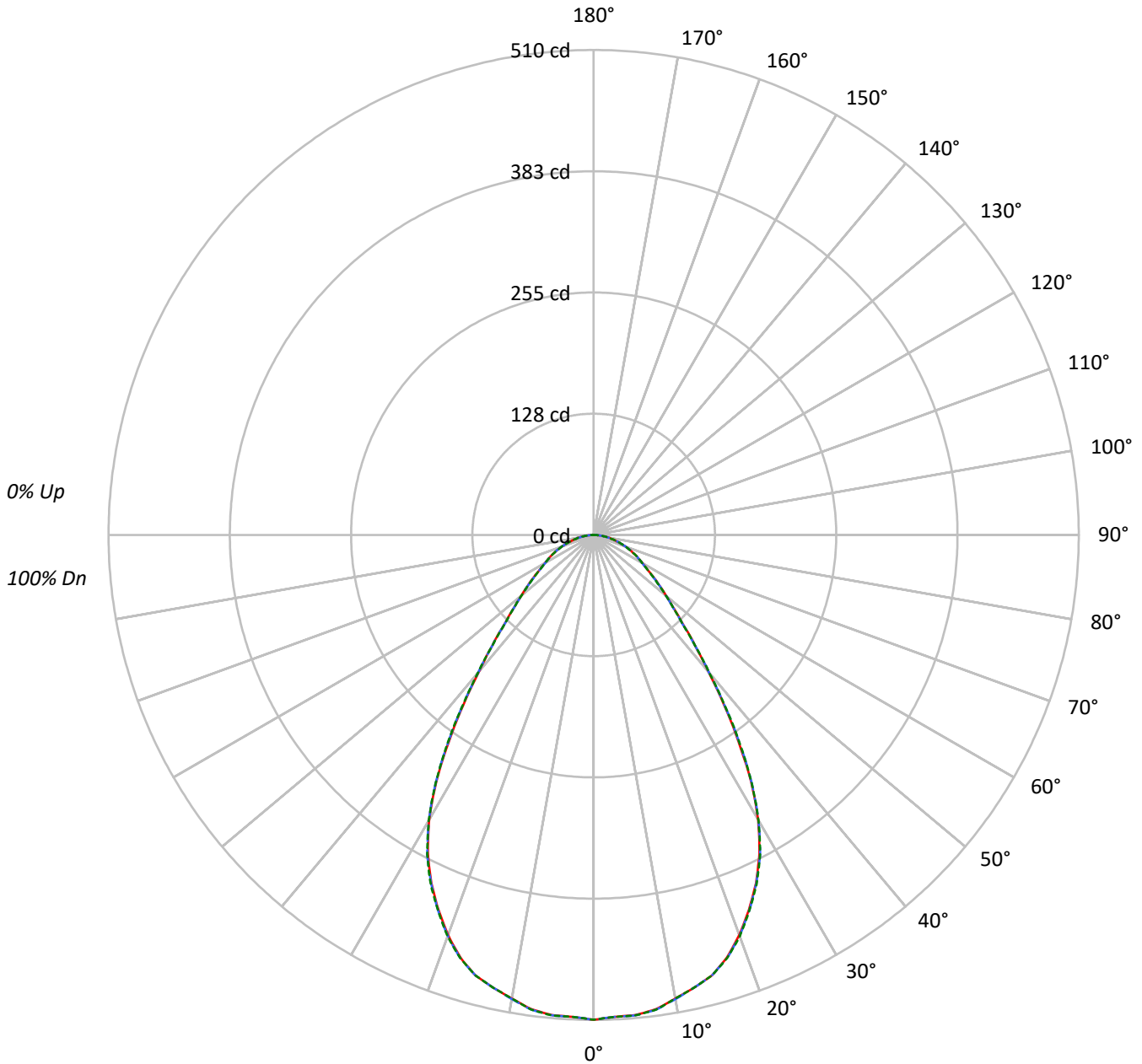
Lumens per Lamp: N/A
Luminaire Lumens: 786.7 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P581419
CATALOG NUMBER: HCC4S07D010BZ-HM40525827-41WDW

Luminous Intensity Polar Plot





TEST NUMBER: P581419

CATALOG NUMBER: HCC4S07D010BZ-HM40525827-41WDW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89								
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78								
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69								
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62								
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56								
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51								
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46								
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42								
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39								
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	62882	62882	62882
5°	62750	62800	62800
10°	61998	62073	61998
15°	61269	61269	61269
20°	58753	58884	58963
25°	54956	55024	55174
30°	49237	49380	49380
35°	39978	40279	40370
40°	30158	30352	30416
45°	23113	23026	23026
50°	19036	18940	18940
55°	16344	16215	16215
60°	14579	14456	14456
65°	13717	13717	13717
70°	12767	12767	12767
75°	11533	11819	11533
80°	10939	10513	10939
85°	9057	9057	9057



TEST NUMBER: P581419
 CATALOG NUMBER: HCC4S07D010BZ-HM40525827-41WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.0	6.1
10°-20°	134.4	17.1
20°-30°	184.7	23.5
30°-40°	166.1	21.1
40°-50°	105.0	13.3
50°-60°	68.5	8.7
60°-70°	46.4	5.9
70°-80°	26.1	3.3
80°-90°	7.4	0.9
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°	367.2	46.7
0°-40°	533.3	67.8
0°-60°	706.8	89.8
0°-90°	786.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	786.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	510	510	510	510	510	
5°	507	507	507	507	507	48
15°	480	480	480	480	480	134
25°	404	404	404	405	405	184
35°	266	266	268	269	268	165
45°	132	132	132	132	132	105
55°	76	76	75	76	75	69
65°	47	47	47	47	47	47
75°	24	25	25	25	24	26
85°	6	6	6	6	6	7
90°	0	0	0	0	0	



TEST NUMBER: P581419

CATALOG NUMBER: HCC4S07D010BZ-HM40525827-41WDW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	509.8	509.8	509.8	509.8	509.8
2.5°	507.2	507.2	507.2	507.2	507.2
5°	506.8	506.8	507.2	507.2	507.2
7.5°	503.0	503.6	503.6	503.6	503.6
10°	495.0	495.0	495.6	495.6	495.0
12.5°	487.7	487.7	487.7	488.2	487.7
15°	479.8	479.8	479.8	479.8	479.8
17.5°	466.0	466.6	466.6	466.6	466.6
20°	447.6	448.6	448.6	449.2	449.2
22.5°	426.5	427.0	427.5	428.0	427.5
25°	403.8	404.3	404.3	405.4	405.4
27.5°	377.4	377.9	379.0	379.0	379.0
30°	345.7	346.3	346.7	346.7	346.7
32.5°	308.3	308.3	309.3	309.9	309.3
35°	265.5	266.5	267.5	268.7	268.1
37.5°	224.9	225.9	226.5	226.5	226.9
40°	187.3	188.5	188.5	189.5	188.9
42.5°	157.8	157.3	157.3	158.3	157.8
45°	132.5	132.0	132.0	132.0	132.0
47.5°	114.0	113.5	113.5	113.5	113.5
50°	99.2	98.7	98.7	98.7	98.7
52.5°	87.1	86.6	86.6	86.6	86.0
55°	76.0	76.0	75.4	76.0	75.4
57.5°	66.0	66.0	66.0	66.0	66.0
60°	59.1	58.6	58.6	58.6	58.6
62.5°	52.8	52.8	52.8	52.8	52.8
65°	47.0	47.0	47.0	47.0	47.0
67.5°	41.2	40.6	41.2	41.2	40.6
70°	35.4	34.8	35.4	35.4	35.4
72.5°	29.6	29.6	29.6	30.0	29.6
75°	24.2	24.8	24.8	24.8	24.2
77.5°	19.6	20.0	19.6	19.6	19.6
80°	15.4	14.8	14.8	14.8	15.4
82.5°	10.6	10.6	10.6	10.6	10.6
85°	6.4	6.4	6.4	6.4	6.4
87.5°	2.6	2.6	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0	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° - - 45°-225° - - - - 90°-270°

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)