

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: P581531

Luminaire Tested: **HCC4S07D010BZ-HM40525935-41WWW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S07D010BZ-HM40525935-41WWW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

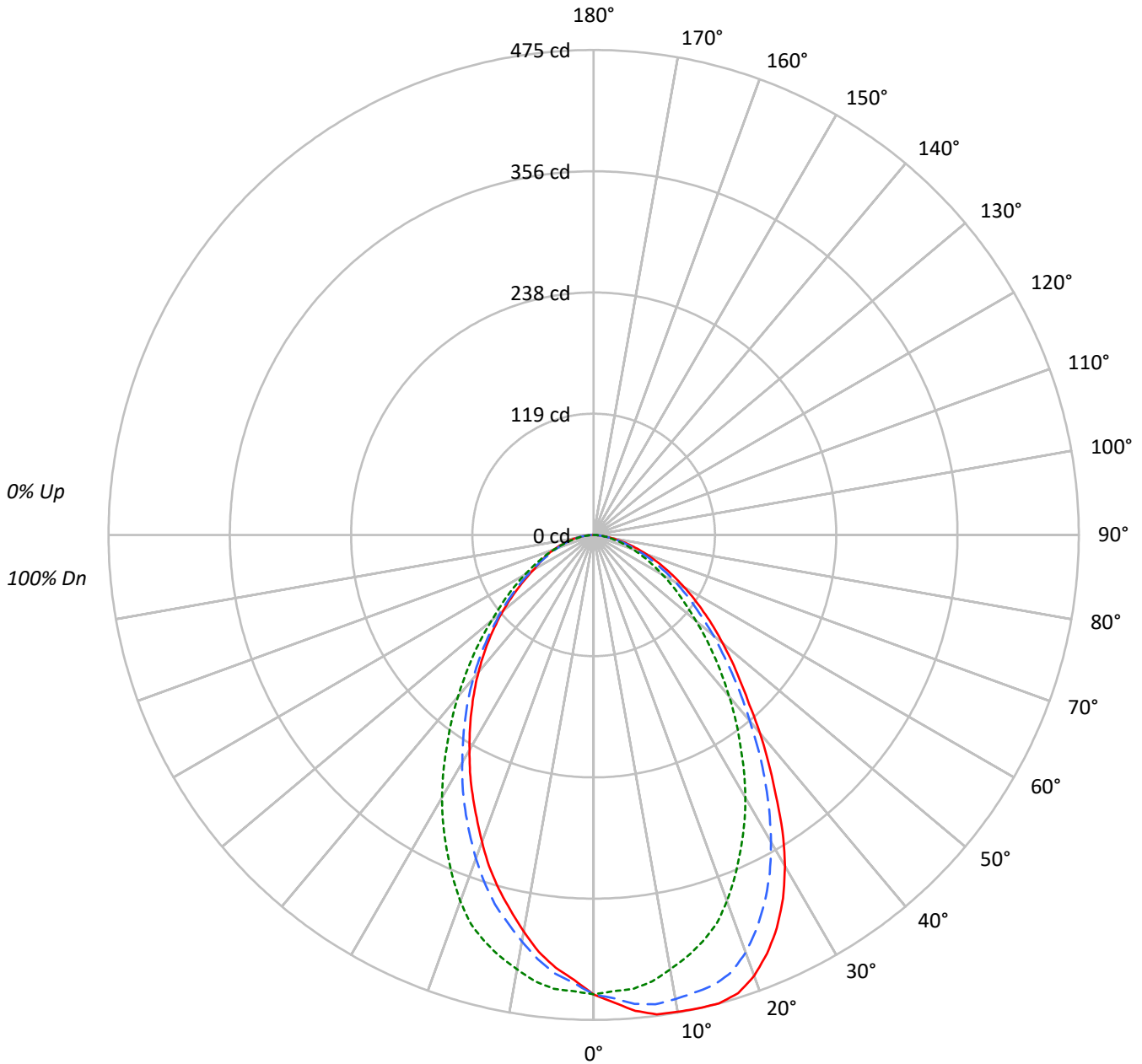
Lumens per Lamp: N/A
Luminaire Lumens: 803.6 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P581531
CATALOG NUMBER: HCC4S07D010BZ-HM40525935-41WWW

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
 1121 Highway 74 South
 Peachtree City, GA 30269



TEST NUMBER: P581531

CATALOG NUMBER: HCC4S07D010BZ-HM40525935-41WWW

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	111	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87					87			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76					76			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66					66			
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58					58			
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52					52			
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47					47			
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	48	44	42					42			
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38					38			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35					35			
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32					32			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	55506	55506	55506
5°	57934	55247	52696
10°	59405	54107	49398
15°	60643	52662	45830
20°	60315	50103	41977
25°	57787	46327	38175
30°	53367	42301	34610
35°	46799	37629	31320
40°	40753	33234	28226
45°	35446	29009	25206
50°	31605	24984	22259
55°	28236	21978	19225
60°	25212	19193	16602
65°	22415	16840	15731
70°	19655	14534	14678
75°	16632	12343	13630
80°	12786	10513	12431
85°	7501	8208	10473



TEST NUMBER: P581531

CATALOG NUMBER: HCC4S07D010BZ-HM40525935-41WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	5.2
10°-20°	116.3	14.5
20°-30°	159.0	19.8
30°-40°	159.6	19.9
40°-50°	132.0	16.4
50°-60°	95.7	11.9
60°-70°	60.6	7.5
70°-80°	30.6	3.8
80°-90°	7.5	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°	317.5	39.5
0°-40°	477.1	59.4
0°-60°	704.8	87.7
0°-90°	803.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	803.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	450	450	450	450	450	
5°	468	461	446	431	426	45
15°	475	456	412	374	359	134
25°	425	396	340	298	280	194
35°	311	292	250	219	208	195
45°	203	192	166	150	144	158
55°	131	120	102	93	89	118
65°	77	68	58	52	54	76
75°	35	30	26	27	29	37
85°	5	5	6	7	7	7
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab
 1121 Highway 74 South
 Peachtree City, GA 30269



TEST NUMBER: P581531

CATALOG NUMBER: HCC4S07D010BZ-HM40525935-41WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	450.0	450.0	450.0	450.0	450.0	450.0	450.0	450.0	450.0
2.5°	458.4	456.9	454.2	451.0	447.3	443.1	439.4	437.2	436.2
5°	467.9	465.9	461.1	454.2	446.2	438.4	431.4	427.2	425.6
7.5°	473.7	470.6	463.7	453.2	441.0	429.4	419.2	413.4	411.8
10°	474.3	470.6	461.6	447.3	432.0	416.6	404.4	396.0	394.4
12.5°	474.9	470.1	459.0	442.0	423.0	403.9	389.1	379.1	376.3
15°	474.9	470.1	456.3	436.2	412.4	390.7	374.3	362.7	358.9
17.5°	470.6	465.3	448.9	425.6	399.7	375.3	356.3	344.1	340.4
20°	459.5	453.7	435.2	409.8	381.7	356.3	337.2	324.6	319.8
22.5°	443.6	436.8	417.2	389.7	361.5	335.6	317.0	303.8	299.6
25°	424.6	417.6	396.5	369.5	340.4	316.0	297.5	285.3	280.5
27.5°	401.3	393.9	373.3	346.2	319.2	294.9	277.9	266.9	262.1
30°	374.7	366.9	347.3	321.4	297.0	273.7	257.3	248.3	243.0
32.5°	344.1	337.2	319.8	296.4	273.7	251.5	237.7	229.8	225.6
35°	310.8	307.0	292.2	272.1	249.9	231.4	219.2	211.8	208.0
37.5°	281.1	277.4	264.7	247.7	228.2	211.2	201.2	194.8	191.6
40°	253.1	249.9	237.7	223.4	206.4	191.6	183.2	178.4	175.3
42.5°	225.6	224.0	213.8	200.6	185.8	173.1	166.3	162.5	159.9
45°	203.2	201.2	191.6	178.9	166.3	155.7	149.8	147.1	144.5
47.5°	183.7	181.1	171.0	159.9	148.3	138.7	133.4	130.8	129.7
50°	164.7	161.9	152.9	141.9	130.2	123.4	119.1	116.4	116.0
52.5°	147.7	145.1	135.0	124.4	115.4	109.6	105.8	103.2	102.2
55°	131.3	128.1	119.6	109.6	102.2	96.8	93.2	90.5	89.4
57.5°	116.4	113.2	105.8	96.4	89.4	84.7	81.5	78.9	77.8
60°	102.2	99.6	92.6	83.6	77.8	73.6	70.4	68.3	67.3
62.5°	89.0	86.8	79.9	72.0	67.3	63.5	60.9	58.7	59.9
65°	76.8	74.7	68.3	61.5	57.7	53.9	51.9	51.9	53.9
67.5°	65.1	63.0	57.7	51.9	48.7	46.1	44.5	46.1	47.7
70°	54.5	52.5	47.7	42.9	40.3	38.1	38.1	39.7	40.7
72.5°	44.5	42.3	38.7	34.9	32.8	31.2	32.8	33.9	34.9
75°	34.9	33.3	30.2	27.5	25.9	25.4	27.0	28.1	28.6
77.5°	25.9	24.9	22.8	20.6	19.6	20.1	21.7	22.2	22.8
80°	18.0	17.5	15.9	14.8	14.8	15.4	16.4	17.0	17.5
82.5°	11.2	11.2	10.0	9.6	10.0	11.2	11.6	12.2	12.2
85°	5.3	5.8	5.3	5.3	5.8	6.8	6.8	7.4	7.4
87.5°	1.6	1.6	2.2	2.2	2.6	2.6	2.6	2.6	3.2
90°	0.0	0.0	0.0	0.0	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)