

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: P593304

Luminaire Tested: **HCC6S45D010BZ-HM64560850-61WDBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S45D010BZ-HM64560850-61WDBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

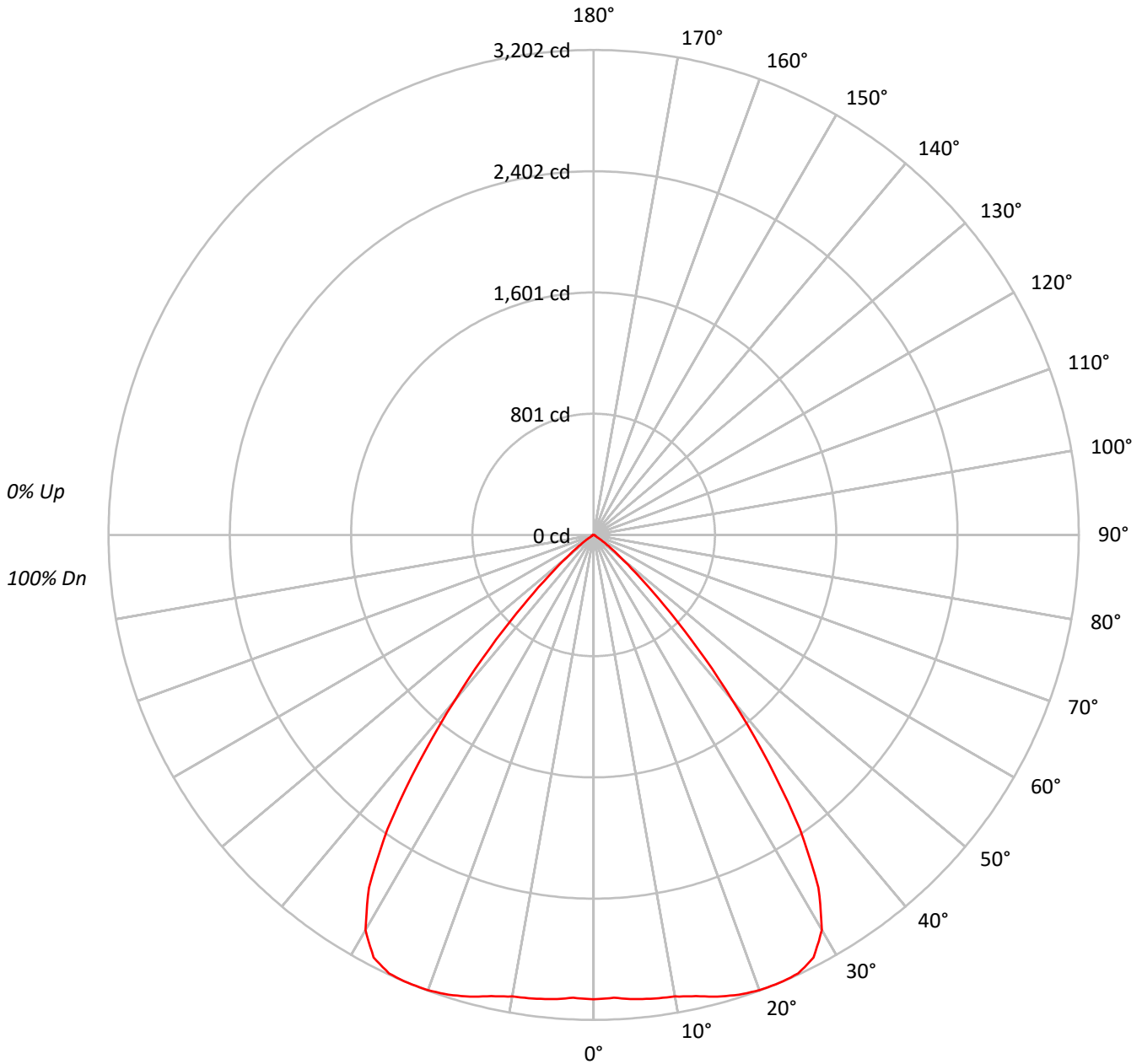
Lumens per Lamp: N/A
Luminaire Lumens: 4732.6 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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: P593304
CATALOG NUMBER: HCC6S45D010BZ-HM64560850-61WDBB

Luminous Intensity Polar Plot





TEST NUMBER: P593304

CATALOG NUMBER: HCC6S45D010BZ-HM64560850-61WDBB

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	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92
2	107	101	97	93	104	100	95	92	96	93	90	93	91	88	90	88	86	85	85	85	85
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77	77	77	77
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71	71	71	71
5	89	80	73	68	87	79	73	68	77	72	67	75	70	67	73	69	66	65	65	65	65
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59	59	59	59
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54	54	54	54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	52	50	50	50	50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46	46	46	46
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43	43	43	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	168079
5°	169315
10°	172264
15°	179093
20°	186607
25°	193257
30°	190669
35°	158869
40°	101877
45°	50873
50°	20187
55°	6853
60°	1963
65°	1401
70°	1154
75°	1525
80°	1137
85°	0



TEST NUMBER: P593304
 CATALOG NUMBER: HCC6S45D010BZ-HM64560850-61WDBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.2	6.2
10°-20°	895.0	18.9
20°-30°	1461.4	30.9
30°-40°	1432.6	30.3
40°-50°	549.3	11.6
50°-60°	80.6	1.7
60°-70°	12.0	0.3
70°-80°	6.2	0.1
80°-90°	1.5	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°	2650.6	56.0
0°-40°	4083.2	86.3
0°-60°	4713.0	99.6
0°-90°	4732.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4732.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3066	
5°	3077	294
15°	3156	895
25°	3195	1461
35°	2374	1433
45°	656	549
55°	72	81
65°	11	12
75°	7	6
85°	0	1
90°	0	



TEST NUMBER: P593304
CATALOG NUMBER: HCC6S45D010BZ-HM64560850-61WDBB

CANDELA DISTRIBUTION (FULL):

	0°
0°	3066.0
2.5°	3058.8
5°	3076.8
7.5°	3087.5
10°	3094.6
12.5°	3119.7
15°	3155.6
17.5°	3184.3
20°	3198.7
22.5°	3202.2
25°	3195.0
27.5°	3144.8
30°	3012.1
32.5°	2761.1
35°	2373.9
37.5°	1897.0
40°	1423.6
42.5°	1014.8
45°	656.2
47.5°	401.6
50°	236.7
52.5°	136.3
55°	71.7
57.5°	32.3
60°	17.9
62.5°	14.3
65°	10.8
67.5°	10.8
70°	7.2
72.5°	7.2
75°	7.2
77.5°	3.6
80°	3.6
82.5°	3.6
85°	0.0
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)