

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: P581918

Luminaire Tested: **HCC6W20D010BZ-HM60525927-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W20D010BZ-HM60525927-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

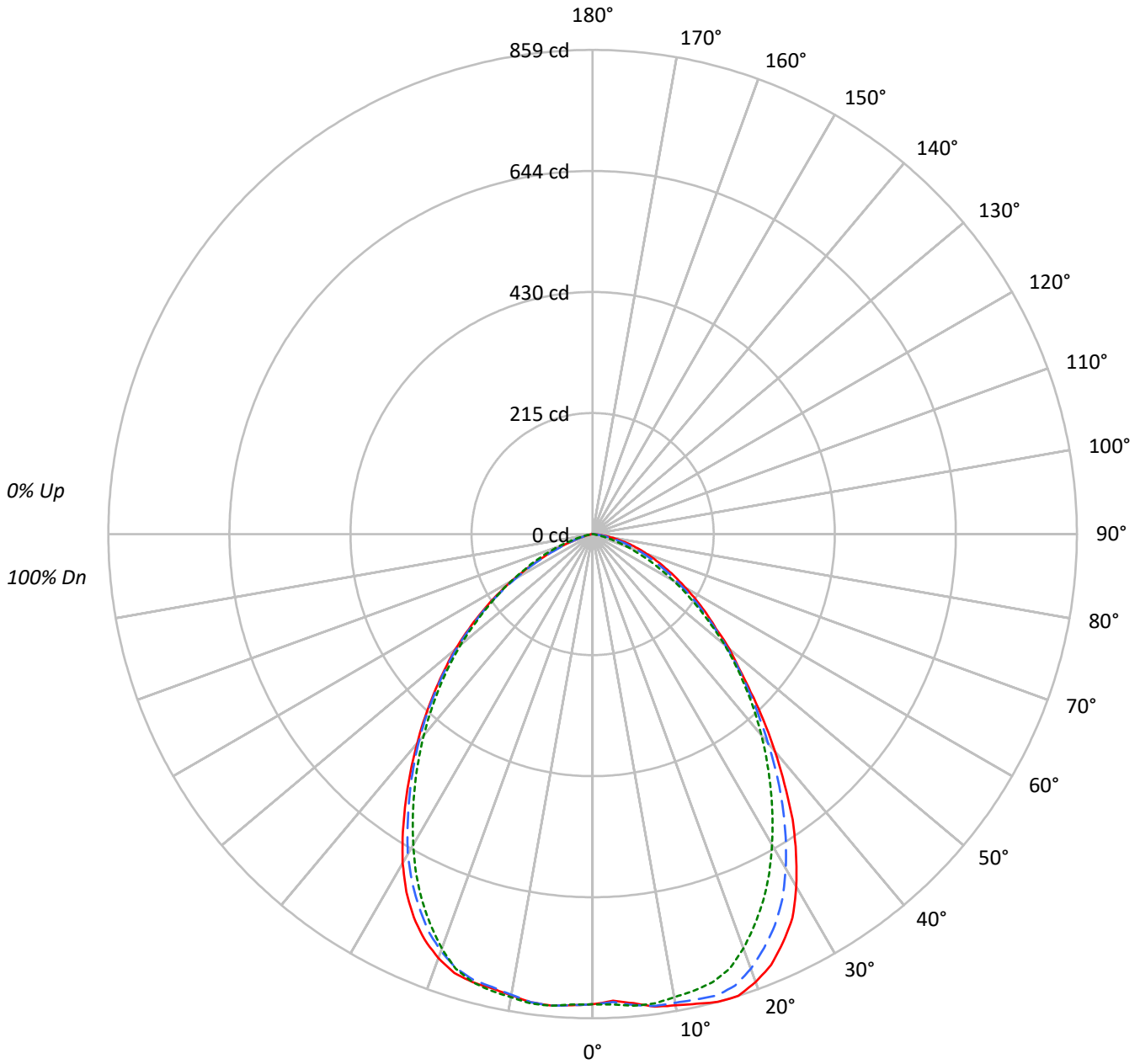
Lumens per Lamp: N/A
Luminaire Lumens: 1684.3 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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: P581918
CATALOG NUMBER: HCC6W20D010BZ-HM60525927-61RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P581918

CATALOG NUMBER: HCC6W20D010BZ-HM60525927-61RWWC

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								
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88								
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77								
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68								
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60								
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53								
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	45736	45736	45736
5°	45977	46219	46219
10°	47260	46442	46253
15°	48763	46709	46709
20°	49331	45638	46694
25°	48342	43351	45402
30°	45729	40285	42652
35°	41385	36841	38661
40°	36003	33334	34622
45°	30763	29709	30763
50°	27001	26029	27095
55°	23550	21925	22795
60°	20821	18222	17970
65°	18471	14372	12310
70°	16301	10146	7421
75°	13895	5740	3601
80°	10323	1799	1073
85°	5724	692	692



TEST NUMBER: P581918
 CATALOG NUMBER: HCC6W20D010BZ-HM60525927-61RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	4.8
10°-20°	234.1	13.9
20°-30°	342.0	20.3
30°-40°	358.7	21.3
40°-50°	302.1	17.9
50°-60°	211.7	12.6
60°-70°	113.5	6.7
70°-80°	38.1	2.3
80°-90°	4.1	0.2
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°	656.1	39.0
0°-40°	1014.8	60.2
0°-60°	1528.6	90.8
0°-90°	1684.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1684.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	834	834	834	834	834	
5°	836	839	840	840	840	80
15°	859	848	823	818	823	242
25°	799	765	717	729	751	366
35°	618	587	550	566	578	384
45°	397	390	383	393	397	309
55°	246	238	229	234	238	222
65°	142	130	111	92	95	142
75°	66	51	27	17	17	70
85°	9	4	1	1	1	12
90°	0	0	0	0	0	



TEST NUMBER: P581918

CATALOG NUMBER: HCC6W20D010BZ-HM60525927-61RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	834.3	834.3	834.3	834.3	834.3	834.3	834.3	834.3	834.3
2.5°	828.7	828.7	830.9	833.2	835.5	835.5	836.6	837.7	836.6
5°	835.5	835.5	838.8	839.9	839.9	838.8	839.9	839.9	839.9
7.5°	845.6	843.3	844.4	842.2	839.9	838.8	837.7	837.7	837.7
10°	849.0	846.7	844.4	839.9	834.3	830.9	829.8	830.9	830.9
12.5°	853.5	851.2	845.6	836.6	829.8	824.1	823.0	825.3	825.3
15°	859.2	856.9	847.8	833.2	823.0	817.3	818.5	820.7	823.0
17.5°	859.2	854.6	839.9	820.7	808.3	802.6	807.1	812.8	816.2
20°	845.6	841.0	820.7	797.0	782.3	778.9	786.9	797.0	800.4
22.5°	827.5	818.5	794.7	766.5	750.6	750.6	761.9	774.4	778.9
25°	799.2	792.4	765.3	732.6	716.7	715.6	729.2	746.1	750.6
27.5°	767.6	758.5	729.2	695.2	678.3	679.5	694.1	711.1	715.6
30°	722.4	711.1	685.1	652.3	636.4	640.9	655.7	668.1	673.8
32.5°	671.5	661.3	637.5	607.1	593.5	598.0	610.5	621.8	626.3
35°	618.4	607.1	586.7	559.6	550.5	555.1	566.4	575.5	577.7
37.5°	558.5	550.5	535.8	514.4	507.6	513.2	522.3	528.0	530.2
40°	503.1	496.3	483.8	468.0	465.8	470.3	479.4	482.8	483.8
42.5°	448.8	443.1	435.2	424.0	424.0	428.5	436.3	438.6	439.7
45°	396.8	393.4	390.0	381.0	383.2	388.8	393.4	396.8	396.8
47.5°	351.6	352.7	348.2	341.4	343.6	349.3	352.7	356.1	356.1
50°	316.6	313.2	308.6	301.8	305.2	309.8	314.3	316.6	317.7
52.5°	275.9	274.8	271.4	263.4	265.7	268.0	272.5	275.9	277.0
55°	246.4	243.0	238.5	229.4	229.4	231.7	234.0	236.2	238.5
57.5°	218.2	214.8	208.0	197.8	196.7	196.7	195.6	197.8	201.2
60°	189.9	188.8	178.6	169.6	166.2	162.8	158.3	159.4	163.9
62.5°	165.1	162.8	153.7	142.4	135.6	130.0	124.4	123.3	127.7
65°	142.4	140.2	130.0	118.7	110.8	100.6	91.5	91.5	94.9
67.5°	122.1	117.6	108.5	96.1	85.9	73.5	64.5	66.7	67.9
70°	101.7	98.3	88.1	75.8	63.3	50.9	45.2	46.3	46.3
72.5°	83.6	79.1	69.0	56.5	44.1	32.7	30.5	29.3	29.3
75°	65.6	61.1	50.9	38.4	27.1	19.3	17.0	17.0	17.0
77.5°	47.5	44.1	35.0	23.8	14.7	9.1	7.9	6.8	6.8
80°	32.7	29.3	21.5	12.5	5.7	3.4	3.4	3.4	3.4
82.5°	19.3	15.9	10.2	5.7	2.3	1.1	1.1	1.1	1.1
85°	9.1	6.8	4.5	2.3	1.1	1.1	1.1	1.1	1.1
87.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
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)