

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: P581901

Luminaire Tested: **HCC6W20D010MB-HM60525840-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W20D010MB-HM60525840-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

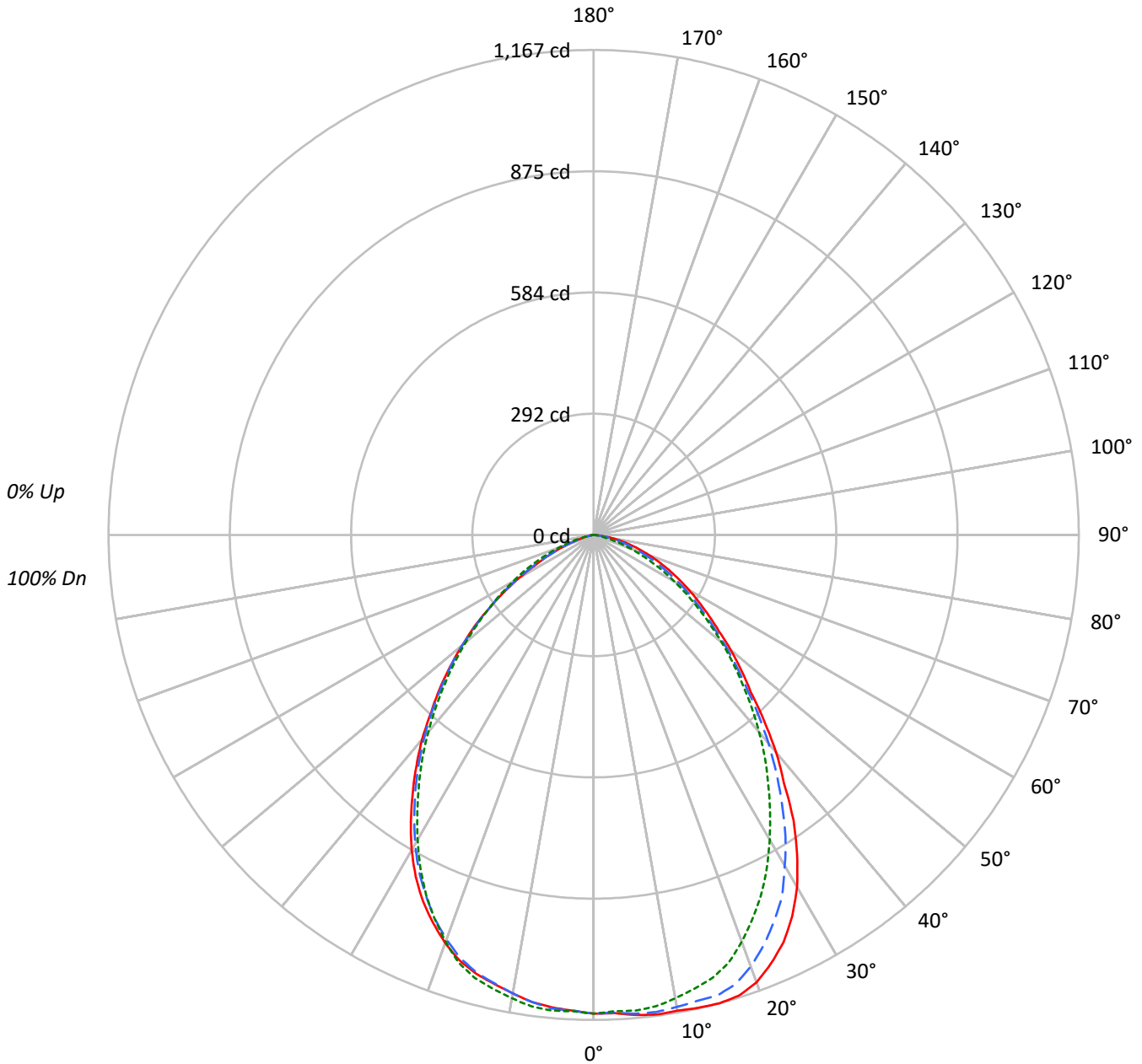
Lumens per Lamp: N/A
Luminaire Lumens: 2257.2 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): 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: P581901
CATALOG NUMBER: HCC6W20D010MB-HM60525840-61RWWH

Luminous Intensity Polar Plot





TEST NUMBER: P581901

CATALOG NUMBER: HCC6W20D010MB-HM60525840-61RWWH

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	93	92	90	88								
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77								
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67								
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59								
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	61	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	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°	63147	63147	63147
5°	63807	63223	62811
10°	64712	63030	62357
15°	66232	62639	62032
20°	66850	60771	60946
25°	65387	57711	58806
30°	61927	53610	55426
35°	56075	49008	50815
40°	48834	44297	45915
45°	41431	39213	40617
50°	36698	34242	35154
55°	32324	29294	29151
60°	28967	24658	22685
65°	25852	19782	16253
70°	22760	14281	10162
75°	19169	8642	5761
80°	14775	3820	2399
85°	8554	943	943



TEST NUMBER: P581901
 CATALOG NUMBER: HCC6W20D010MB-HM60525840-61RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	4.8
10°-20°	314.3	13.9
20°-30°	454.3	20.1
30°-40°	478.0	21.2
40°-50°	401.8	17.8
50°-60°	282.0	12.5
60°-70°	155.1	6.9
70°-80°	55.1	2.4
80°-90°	7.2	0.3
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°	877.9	38.9
0°-40°	1355.9	60.1
0°-60°	2039.7	90.4
0°-90°	2257.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2257.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1152	1152	1152	1152	1152	
5°	1160	1156	1149	1144	1141	111
15°	1167	1147	1104	1090	1093	329
25°	1081	1027	954	956	972	495
35°	838	790	732	747	759	519
45°	534	519	506	518	524	419
55°	338	320	306	306	305	304
65°	199	178	152	125	125	198
75°	90	72	41	27	27	97
85°	14	8	2	2	2	19
90°	0	0	0	0	0	

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



TEST NUMBER: P581901

CATALOG NUMBER: HCC6W20D010MB-HM60525840-61RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1151.9	1151.9	1151.9	1151.9	1151.9	1151.9	1151.9	1151.9	1151.9
2.5°	1151.9	1151.9	1150.4	1150.4	1147.4	1147.4	1145.9	1145.9	1145.9
5°	1159.5	1159.5	1156.5	1151.9	1148.9	1144.3	1144.3	1142.9	1141.4
7.5°	1164.0	1162.5	1157.9	1151.9	1144.3	1136.9	1133.8	1135.3	1133.8
10°	1162.5	1159.5	1153.4	1141.4	1132.3	1121.7	1120.2	1118.7	1120.2
12.5°	1165.5	1161.0	1148.9	1133.8	1118.7	1106.6	1105.1	1105.1	1106.6
15°	1167.0	1162.5	1147.4	1124.7	1103.7	1091.5	1090.1	1091.5	1093.0
17.5°	1162.5	1156.5	1133.8	1103.7	1079.4	1067.4	1067.4	1070.3	1073.4
20°	1145.9	1136.9	1105.1	1068.9	1041.7	1032.6	1035.7	1041.7	1044.7
22.5°	1115.7	1105.1	1068.9	1028.1	999.4	991.9	999.4	1007.0	1010.0
25°	1081.0	1068.9	1026.6	984.4	954.1	945.0	955.7	967.7	972.2
27.5°	1034.2	1020.6	981.3	933.0	902.8	898.2	910.4	924.0	927.0
30°	978.3	963.2	919.4	874.1	846.9	845.4	859.0	871.2	875.6
32.5°	910.4	896.8	859.0	813.7	789.6	789.6	803.2	813.7	818.3
35°	837.9	822.8	789.6	751.9	732.3	733.7	747.3	754.8	759.3
37.5°	751.9	747.3	721.6	690.0	676.4	679.3	690.0	696.0	700.5
40°	682.4	670.3	653.7	628.0	619.0	622.0	632.6	638.6	641.6
42.5°	606.9	599.4	585.8	567.6	561.6	566.2	575.2	579.8	578.2
45°	534.4	533.0	519.4	508.8	505.8	511.8	517.8	522.3	523.9
47.5°	481.6	475.5	463.5	455.9	452.9	459.0	465.0	468.0	468.0
50°	430.3	424.2	412.2	404.6	401.5	407.7	412.2	415.1	412.2
52.5°	379.0	372.9	362.3	353.3	351.8	354.7	356.3	357.8	360.9
55°	338.2	332.1	320.1	309.5	306.5	307.9	306.5	306.5	305.0
57.5°	298.9	292.9	280.8	268.7	264.2	262.7	258.2	256.6	255.2
60°	264.2	256.6	244.6	231.0	224.9	218.9	211.3	206.9	206.9
62.5°	231.0	223.4	209.8	197.8	188.8	178.1	166.1	160.0	160.0
65°	199.3	193.3	178.1	164.5	152.5	138.9	125.3	122.3	125.3
67.5°	169.0	163.0	148.0	134.4	119.3	102.6	90.5	90.5	93.6
70°	142.0	135.8	122.3	105.7	89.1	72.5	63.4	63.4	63.4
72.5°	116.2	110.2	95.1	80.0	63.4	46.8	42.3	43.7	42.3
75°	90.5	86.1	72.5	55.9	40.8	28.7	27.2	25.7	27.2
77.5°	68.0	63.4	51.3	36.3	22.7	16.7	15.1	15.1	15.1
80°	46.8	42.3	33.2	21.2	12.1	7.6	7.6	7.6	7.6
82.5°	28.7	24.1	18.1	10.5	4.5	4.5	4.5	4.5	4.5
85°	13.6	10.5	7.6	3.1	1.5	1.5	1.5	1.5	1.5
87.5°	3.1	3.1	1.5	1.5	0.0	1.5	1.5	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)