

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: P582747

Luminaire Tested: **HCC6S50D010MW-HM64560835-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582747
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: HCC6S50D010MW-HM64560835-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

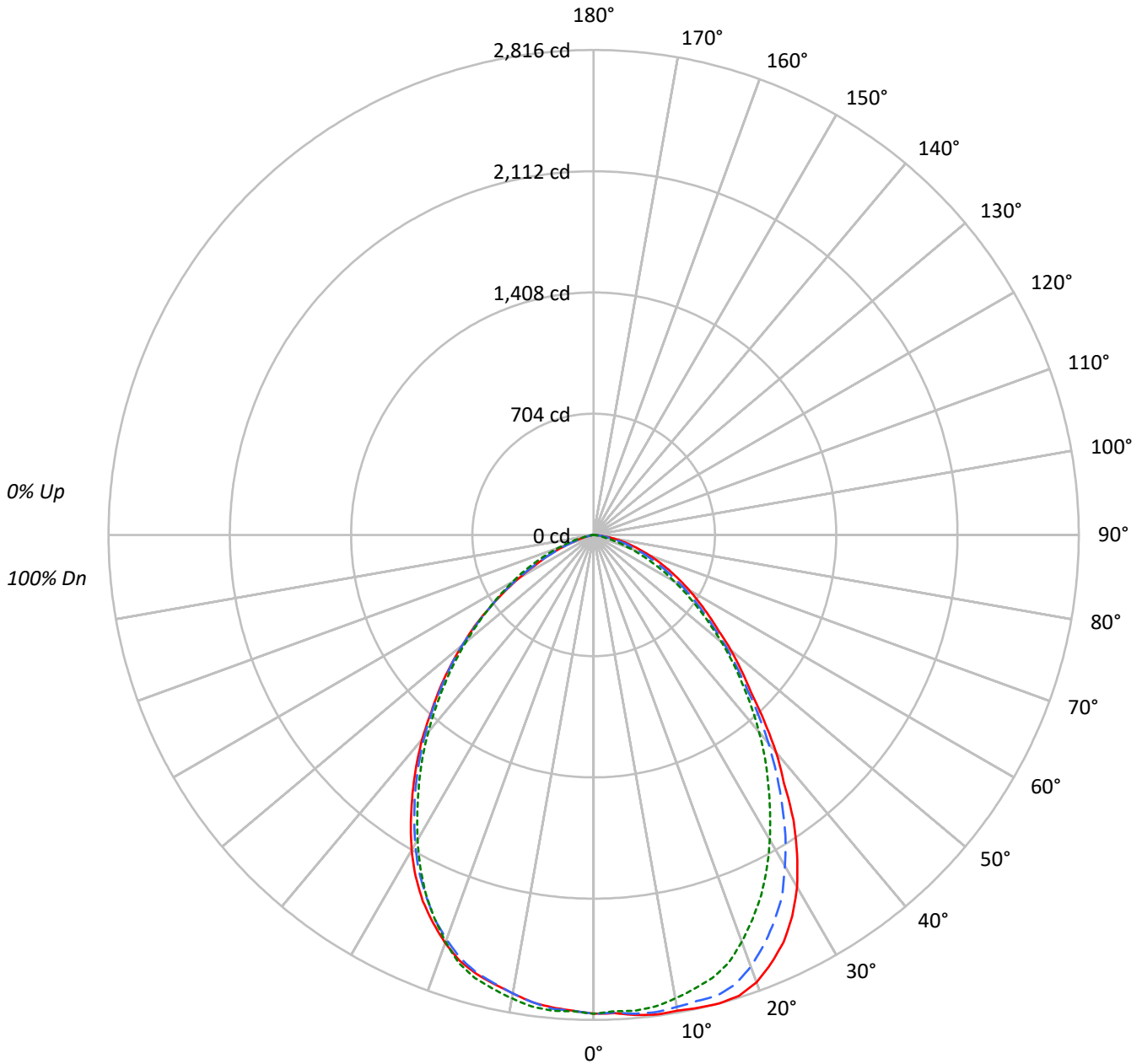
Lumens per Lamp: N/A
Luminaire Lumens: 5447.3 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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: P582747
CATALOG NUMBER: HCC6S50D010MW-HM64560835-61RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P582747

CATALOG NUMBER: HCC6S50D010MW-HM64560835-61RWWH

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°	152400	152400	152400
5°	153978	152575	151573
10°	156171	152113	150487
15°	159836	151159	149711
20°	161323	146663	147083
25°	157793	139278	141928
30°	149447	129387	133767
35°	135325	118253	122650
40°	117849	106900	110808
45°	99995	94630	98018
50°	88551	82650	84825
55°	78000	70698	70344
60°	69907	59524	54721
65°	62380	47735	39239
70°	54897	34445	24539
75°	46301	20842	13873
80°	35642	9218	5746
85°	20631	2327	2327



TEST NUMBER: P582747
 CATALOG NUMBER: HCC6S50D010MW-HM64560835-61RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.9	4.8
10°-20°	758.4	13.9
20°-30°	1096.3	20.1
30°-40°	1153.6	21.2
40°-50°	969.7	17.8
50°-60°	680.6	12.5
60°-70°	374.4	6.9
70°-80°	132.9	2.4
80°-90°	17.4	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°	2118.6	38.9
0°-40°	3272.1	60.1
0°-60°	4922.5	90.4
0°-90°	5447.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5447.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2780	2780	2780	2780	2780	
5°	2798	2791	2773	2762	2754	267
15°	2816	2769	2663	2631	2638	795
25°	2609	2478	2303	2306	2346	1193
35°	2022	1906	1767	1804	1833	1253
45°	1290	1253	1221	1250	1264	1012
55°	816	772	740	740	736	734
65°	481	430	368	302	302	479
75°	219	175	98	66	66	235
85°	33	18	4	4	4	45
90°	0	0	0	0	0	

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



TEST NUMBER: P582747

CATALOG NUMBER: HCC6S50D010MW-HM64560835-61RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2780.0	2780.0	2780.0	2780.0	2780.0	2780.0	2780.0	2780.0	2780.0
2.5°	2780.0	2780.0	2776.3	2776.3	2769.0	2769.0	2765.3	2765.3	2765.3
5°	2798.1	2798.1	2790.8	2780.0	2772.6	2761.8	2761.8	2758.1	2754.4
7.5°	2809.1	2805.5	2794.5	2780.0	2761.8	2743.5	2736.3	2739.8	2736.3
10°	2805.5	2798.1	2783.6	2754.4	2732.6	2707.1	2703.4	2699.8	2703.4
12.5°	2812.7	2801.8	2772.6	2736.3	2699.8	2670.6	2666.9	2666.9	2670.6
15°	2816.3	2805.5	2769.0	2714.3	2663.4	2634.2	2630.6	2634.2	2637.9
17.5°	2805.5	2790.8	2736.3	2663.4	2605.0	2575.9	2575.9	2583.2	2590.5
20°	2765.3	2743.5	2666.9	2579.5	2514.0	2492.1	2499.4	2514.0	2521.2
22.5°	2692.4	2666.9	2579.5	2481.2	2412.0	2393.8	2412.0	2430.1	2437.5
25°	2608.7	2579.5	2477.5	2375.5	2302.6	2280.7	2306.3	2335.4	2346.4
27.5°	2495.7	2463.0	2368.3	2251.6	2178.7	2167.8	2197.0	2229.7	2237.1
30°	2360.9	2324.4	2218.9	2109.5	2044.0	2040.3	2073.1	2102.3	2113.2
32.5°	2197.0	2164.2	2073.1	1963.8	1905.5	1905.5	1938.3	1963.8	1974.8
35°	2022.1	1985.6	1905.5	1814.4	1767.0	1770.7	1803.5	1821.7	1832.7
37.5°	1814.4	1803.5	1741.5	1665.1	1632.3	1639.6	1665.1	1679.6	1690.6
40°	1646.8	1617.7	1577.6	1515.7	1493.8	1501.1	1526.6	1541.2	1548.4
42.5°	1464.7	1446.5	1413.7	1370.0	1355.3	1366.3	1388.1	1399.1	1395.5
45°	1289.8	1286.1	1253.3	1227.9	1220.6	1235.1	1249.7	1260.6	1264.3
47.5°	1162.2	1147.7	1118.5	1100.3	1093.0	1107.5	1122.2	1129.5	1129.5
50°	1038.3	1023.8	994.6	976.5	969.1	983.8	994.6	1002.0	994.6
52.5°	914.4	899.9	874.4	852.6	848.9	856.2	859.9	863.5	870.8
55°	816.1	801.5	772.4	746.9	739.7	743.2	739.7	739.7	736.0
57.5°	721.4	706.8	677.7	648.5	637.6	634.0	623.0	619.4	615.8
60°	637.6	619.4	590.3	557.4	542.9	528.3	510.1	499.1	499.1
62.5°	557.4	539.2	506.4	477.2	455.4	429.9	400.8	386.2	386.2
65°	480.9	466.4	429.9	397.2	368.0	335.2	302.5	295.1	302.5
67.5°	408.0	393.5	357.0	324.3	287.8	247.8	218.6	218.6	225.9
70°	342.5	328.0	295.1	255.1	214.9	174.9	153.1	153.1	153.1
72.5°	280.5	266.0	229.6	193.1	153.1	112.9	102.0	105.7	102.0
75°	218.6	207.6	174.9	134.8	98.4	69.2	65.5	61.9	65.5
77.5°	163.9	153.1	123.9	87.4	54.7	40.0	36.5	36.5	36.5
80°	112.9	102.0	80.2	51.0	29.2	18.2	18.2	18.2	18.2
82.5°	69.2	58.3	43.7	25.5	11.0	11.0	11.0	11.0	11.0
85°	32.8	25.5	18.2	7.3	3.7	3.7	3.7	3.7	3.7
87.5°	7.3	7.3	3.7	3.7	0.0	3.7	3.7	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)