

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: P582584

Luminaire Tested: **HCC6W45D010SL-HM64560830-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582584
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: HCC6W45D010SL-HM64560830-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

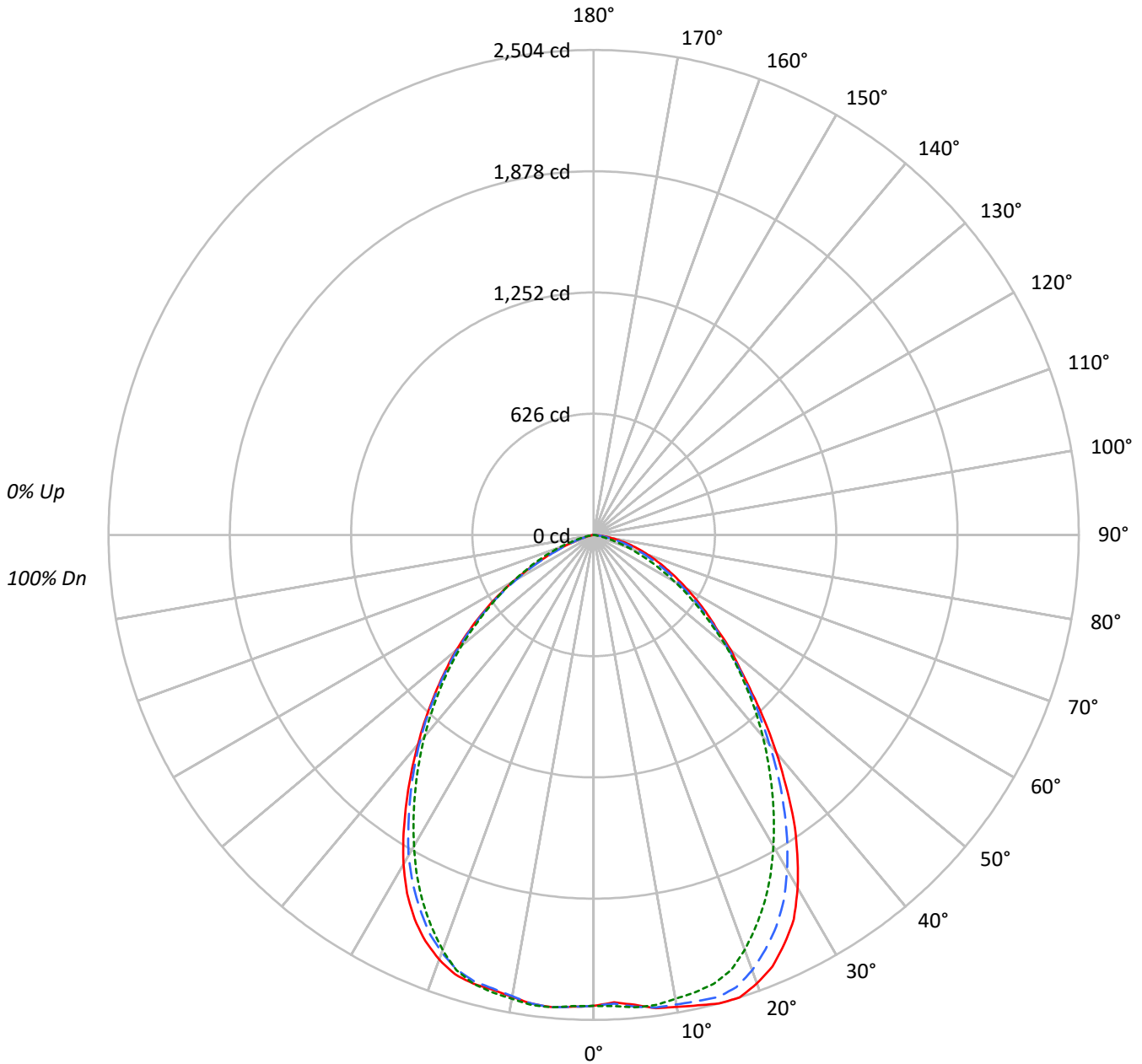
Lumens per Lamp: N/A
Luminaire Lumens: 4909.6 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P582584
CATALOG NUMBER: HCC6W45D010SL-HM64560830-61RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P582584

CATALOG NUMBER: HCC6W45D010SL-HM64560830-61RWWC

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°	133317	133317	133317
5°	134003	134729	134729
10°	137756	135374	134817
15°	142135	136147	136147
20°	143793	133023	136104
25°	140917	126364	132346
30°	133293	117436	124323
35°	120622	107398	112685
40°	104939	97153	100925
45°	89668	86598	89668
50°	78693	75878	78974
55°	68652	63940	66444
60°	60686	53099	52386
65°	53858	41885	35905
70°	47524	29572	21654
75°	40477	16754	10463
80°	30181	5177	3125
85°	16605	2076	2076



TEST NUMBER: P582584
 CATALOG NUMBER: HCC6W45D010SL-HM64560830-61RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.3	4.8
10°-20°	682.5	13.9
20°-30°	996.8	20.3
30°-40°	1045.4	21.3
40°-50°	880.7	17.9
50°-60°	617.1	12.6
60°-70°	330.8	6.7
70°-80°	110.9	2.3
80°-90°	12.1	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°	1912.6	39.0
0°-40°	2957.9	60.2
0°-60°	4455.7	90.8
0°-90°	4909.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4909.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2432	2432	2432	2432	2432	
5°	2435	2445	2448	2448	2448	234
15°	2504	2471	2399	2386	2399	706
25°	2330	2231	2089	2125	2188	1067
35°	1802	1710	1605	1651	1684	1119
45°	1157	1137	1117	1147	1157	901
55°	718	695	669	682	695	647
65°	415	379	323	267	277	415
75°	191	148	79	49	49	203
85°	26	13	3	3	3	36
90°	0	0	0	0	0	

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



TEST NUMBER: P582584

CATALOG NUMBER: HCC6W45D010SL-HM64560830-61RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9
2.5°	2415.3	2415.3	2421.9	2428.6	2435.1	2435.1	2438.4	2441.7	2438.4
5°	2435.1	2435.1	2445.0	2448.3	2448.3	2445.0	2448.3	2448.3	2448.3
7.5°	2464.8	2458.1	2461.5	2454.9	2448.3	2445.0	2441.7	2441.7	2441.7
10°	2474.7	2468.1	2461.5	2448.3	2431.9	2421.9	2418.6	2421.9	2421.9
12.5°	2487.8	2481.2	2464.8	2438.4	2418.6	2402.2	2398.9	2405.5	2405.5
15°	2504.4	2497.8	2471.4	2428.6	2398.9	2382.4	2385.6	2392.3	2398.9
17.5°	2504.4	2491.1	2448.3	2392.3	2356.1	2339.5	2352.7	2369.2	2379.1
20°	2464.8	2451.6	2392.3	2323.1	2280.2	2270.3	2293.4	2323.1	2333.0
22.5°	2412.0	2385.6	2316.4	2234.1	2188.0	2188.0	2221.0	2257.2	2270.3
25°	2329.7	2309.9	2230.8	2135.2	2089.1	2085.8	2125.4	2174.9	2188.0
27.5°	2237.4	2211.1	2125.4	2026.5	1977.1	1980.4	2023.2	2072.7	2085.8
30°	2105.7	2072.7	1996.9	1901.3	1855.2	1868.4	1911.2	1947.4	1964.0
32.5°	1957.3	1927.7	1858.5	1769.5	1729.9	1743.2	1779.4	1812.3	1825.5
35°	1802.4	1769.5	1710.2	1631.1	1604.8	1617.9	1650.9	1677.3	1683.8
37.5°	1627.8	1604.8	1561.8	1499.3	1479.5	1496.0	1522.3	1538.9	1545.4
40°	1466.4	1446.5	1410.3	1364.2	1357.6	1370.8	1397.2	1407.0	1410.3
42.5°	1308.1	1291.7	1268.6	1235.6	1235.6	1248.9	1271.9	1278.6	1281.9
45°	1156.6	1146.7	1136.9	1110.5	1117.0	1133.6	1146.7	1156.6	1156.6
47.5°	1024.9	1028.1	1014.9	995.2	1001.7	1018.2	1028.1	1038.0	1038.0
50°	922.7	912.7	899.6	879.8	889.7	902.9	916.0	922.7	926.0
52.5°	804.0	800.7	790.8	767.7	774.4	781.0	794.1	804.0	807.3
55°	718.3	708.5	695.2	669.0	669.0	675.5	682.1	688.7	695.2
57.5°	636.0	626.0	606.3	576.6	573.4	573.4	570.1	576.6	586.5
60°	553.5	550.3	520.6	494.3	484.3	474.5	461.3	464.6	477.8
62.5°	481.0	474.5	448.1	415.2	395.4	379.0	362.5	359.2	372.3
65°	415.2	408.6	379.0	346.0	322.9	293.2	266.9	266.9	276.8
67.5°	355.9	342.8	316.4	280.1	250.4	214.2	187.8	194.4	197.8
70°	296.5	286.7	257.0	220.8	184.5	148.3	131.8	135.1	135.1
72.5°	243.9	230.6	201.1	164.8	128.6	95.6	88.9	85.6	85.6
75°	191.1	177.9	148.3	112.0	79.1	56.1	49.4	49.4	49.4
77.5°	138.4	128.6	102.2	69.2	42.8	26.4	23.1	19.8	19.8
80°	95.6	85.6	62.6	36.2	16.4	9.9	9.9	9.9	9.9
82.5°	56.1	46.1	29.7	16.4	6.6	3.3	3.3	3.3	3.3
85°	26.4	19.8	13.1	6.6	3.3	3.3	3.3	3.3	3.3
87.5°	3.3	3.3	3.3	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)