

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: P582566

Luminaire Tested: **HCC6S45D010MW-HM64560827-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582566
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: HCC6S45D010MW-HM64560827-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

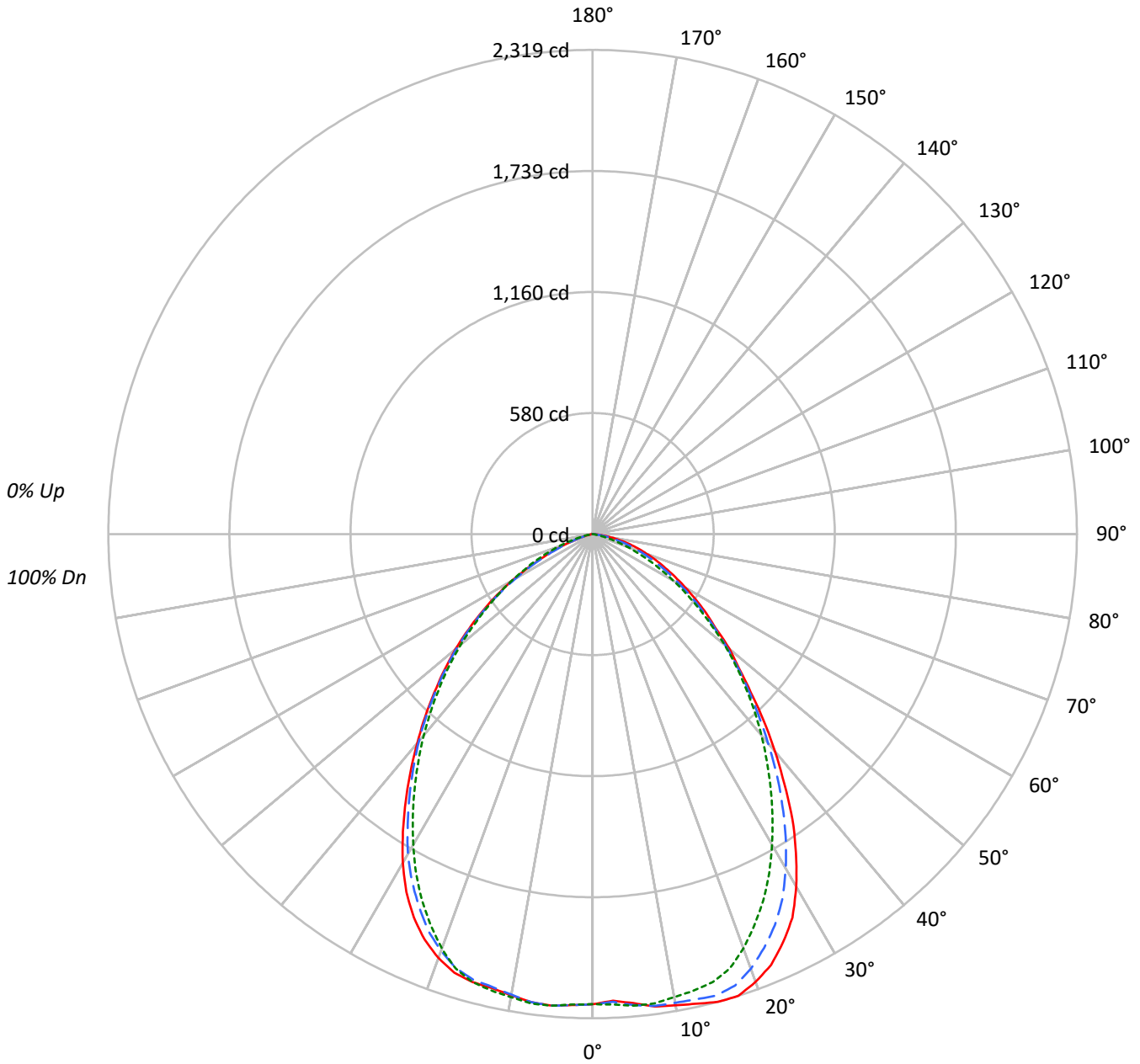
Lumens per Lamp: N/A
Luminaire Lumens: 4546.2 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P582566
CATALOG NUMBER: HCC6S45D010MW-HM64560827-61RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P582566

CATALOG NUMBER: HCC6S45D010MW-HM64560827-61RWWC

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	123444	123444	123444
5°	124086	124758	124758
10°	127558	125348	124842
15°	131613	126068	126068
20°	133146	123182	126028
25°	130489	117013	122547
30°	123424	108745	115113
35°	111701	99448	104346
40°	97175	89961	93454
45°	83024	80194	83024
50°	72868	70258	73132
55°	63577	59209	61541
60°	56202	49185	48516
65°	49876	38785	33246
70°	44014	27392	20067
75°	37490	15504	9680
80°	27908	4799	2873
85°	15347	1887	1887



TEST NUMBER: P582566
 CATALOG NUMBER: HCC6S45D010MW-HM64560827-61RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.0	4.8
10°-20°	632.0	13.9
20°-30°	923.0	20.3
30°-40°	968.0	21.3
40°-50°	815.5	17.9
50°-60°	571.4	12.6
60°-70°	306.3	6.7
70°-80°	102.7	2.3
80°-90°	11.2	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°	1771.0	39.0
0°-40°	2739.0	60.2
0°-60°	4126.0	90.8
0°-90°	4546.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4546.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2252	2252	2252	2252	2252	
5°	2255	2264	2267	2267	2267	217
15°	2319	2288	2221	2209	2221	654
25°	2157	2066	1934	1968	2026	988
35°	1669	1584	1486	1529	1559	1036
45°	1071	1053	1034	1062	1071	834
55°	665	644	620	632	644	599
65°	384	351	299	247	256	384
75°	177	137	73	46	46	188
85°	24	12	3	3	3	34
90°	0	0	0	0	0	

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



TEST NUMBER: P582566

CATALOG NUMBER: HCC6S45D010MW-HM64560827-61RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8
2.5°	2236.6	2236.6	2242.7	2248.8	2254.9	2254.9	2257.9	2261.0	2257.9
5°	2254.9	2254.9	2264.0	2267.1	2267.1	2264.0	2267.1	2267.1	2267.1
7.5°	2282.3	2276.2	2279.3	2273.2	2267.1	2264.0	2261.0	2261.0	2261.0
10°	2291.5	2285.4	2279.3	2267.1	2251.8	2242.7	2239.6	2242.7	2242.7
12.5°	2303.7	2297.6	2282.3	2257.9	2239.6	2224.4	2221.3	2227.4	2227.4
15°	2319.0	2312.9	2288.4	2248.8	2221.3	2206.1	2209.1	2215.2	2221.3
17.5°	2319.0	2306.8	2267.1	2215.2	2181.7	2166.4	2178.6	2193.9	2203.0
20°	2282.3	2270.1	2215.2	2151.2	2111.5	2102.4	2123.7	2151.2	2160.3
22.5°	2233.5	2209.1	2145.1	2068.8	2026.0	2026.0	2056.5	2090.2	2102.4
25°	2157.3	2139.0	2065.8	1977.2	1934.5	1931.5	1968.1	2013.8	2026.0
27.5°	2071.9	2047.4	1968.1	1876.6	1830.8	1833.9	1873.5	1919.3	1931.5
30°	1949.8	1919.3	1849.1	1760.6	1717.9	1730.1	1769.7	1803.3	1818.5
32.5°	1812.4	1785.0	1720.9	1638.6	1602.0	1614.2	1647.7	1678.2	1690.4
35°	1669.1	1638.6	1583.7	1510.4	1486.0	1498.2	1528.7	1553.1	1559.2
37.5°	1507.3	1486.0	1446.3	1388.4	1370.1	1385.3	1409.7	1425.0	1431.1
40°	1357.9	1339.6	1305.9	1263.2	1257.1	1269.3	1293.7	1302.9	1305.9
42.5°	1211.4	1196.1	1174.8	1144.3	1144.3	1156.5	1177.8	1183.9	1187.0
45°	1070.9	1061.8	1052.7	1028.3	1034.4	1049.6	1061.8	1070.9	1070.9
47.5°	949.0	952.0	939.8	921.5	927.6	942.9	952.0	961.2	961.2
50°	854.4	845.1	832.9	814.6	823.8	836.0	848.2	854.4	857.5
52.5°	744.5	741.5	732.3	711.0	717.1	723.2	735.4	744.5	747.6
55°	665.2	656.1	643.9	619.5	619.5	625.6	631.7	637.8	643.9
57.5°	588.8	579.7	561.4	533.9	530.9	530.9	527.8	533.9	543.1
60°	512.6	509.6	482.1	457.7	448.6	439.4	427.2	430.3	442.5
62.5°	445.5	439.4	415.0	384.5	366.2	350.8	335.6	332.5	344.7
65°	384.5	378.4	350.8	320.3	299.0	271.5	247.2	247.2	256.3
67.5°	329.5	317.3	292.9	259.4	231.9	198.4	174.0	180.1	183.1
70°	274.6	265.4	238.0	204.5	170.9	137.4	122.1	125.2	125.2
72.5°	225.8	213.6	186.2	152.6	118.9	88.4	82.3	79.3	79.3
75°	177.0	164.8	137.4	103.7	73.2	51.8	45.7	45.7	45.7
77.5°	128.2	118.9	94.5	64.0	39.6	24.4	21.3	18.3	18.3
80°	88.4	79.3	57.9	33.5	15.2	9.1	9.1	9.1	9.1
82.5°	51.8	42.7	27.4	15.2	6.1	3.0	3.0	3.0	3.0
85°	24.4	18.3	12.2	6.1	3.0	3.0	3.0	3.0	3.0
87.5°	3.0	3.0	3.0	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)