

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: P582656

Luminaire Tested: **HCC6S45D010BZ-HM64560930-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582656
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: HCC6S45D010BZ-HM64560930-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

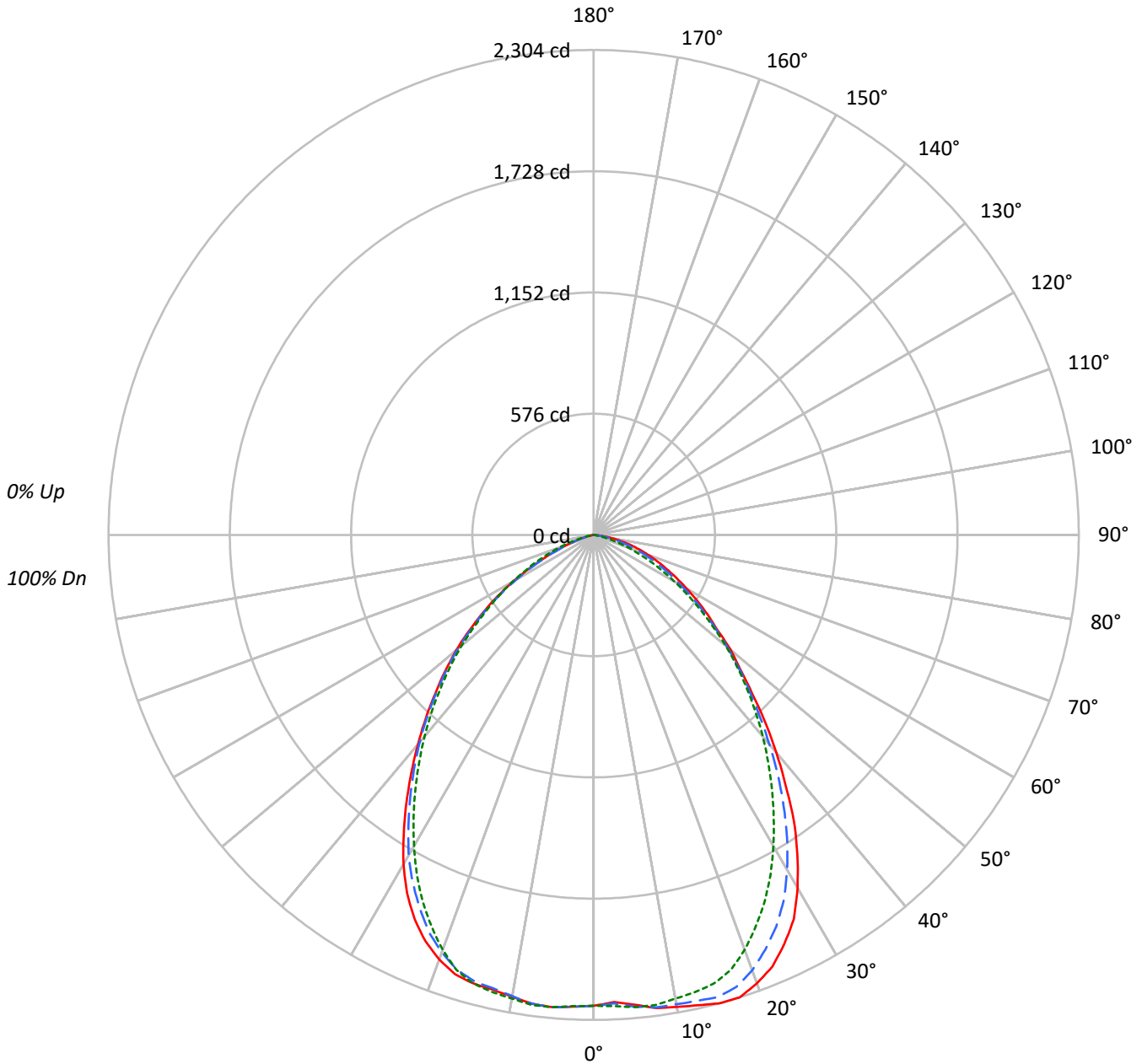
Lumens per Lamp: N/A
Luminaire Lumens: 4516.2 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P582656
CATALOG NUMBER: HCC6S45D010BZ-HM64560930-61RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P582656

CATALOG NUMBER: HCC6S45D010BZ-HM64560930-61RWWC

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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°	122633	122633	122633
5°	123266	123938	123938
10°	126718	124525	124018
15°	130744	125233	125233
20°	132271	122371	125194
25°	129630	116239	121737
30°	122607	108023	114353
35°	110958	98792	103657
40°	96524	89367	92838
45°	82481	79659	82481
50°	72381	69797	72637
55°	63157	58818	61121
60°	55829	48856	48187
65°	49538	38526	33039
70°	43725	27200	19907
75°	37236	15399	9637
80°	27750	4767	2873
85°	15284	1887	1887



TEST NUMBER: P582656

CATALOG NUMBER: HCC6S45D010BZ-HM64560930-61RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.6	4.8
10°-20°	627.8	13.9
20°-30°	916.9	20.3
30°-40°	961.6	21.3
40°-50°	810.1	17.9
50°-60°	567.6	12.6
60°-70°	304.3	6.7
70°-80°	102.1	2.3
80°-90°	11.1	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°	1759.3	39.0
0°-40°	2721.0	60.2
0°-60°	4098.7	90.8
0°-90°	4516.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4516.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2237	2237	2237	2237	2237	
5°	2240	2249	2252	2252	2252	215
15°	2304	2273	2207	2195	2207	650
25°	2143	2052	1922	1955	2013	982
35°	1658	1573	1476	1519	1549	1029
45°	1064	1046	1028	1055	1064	829
55°	661	640	615	627	640	595
65°	382	349	297	246	255	381
75°	176	136	73	46	46	186
85°	24	12	3	3	3	33
90°	0	0	0	0	0	

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



TEST NUMBER: P582656

CATALOG NUMBER: HCC6S45D010BZ-HM64560930-61RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2237.0	2237.0	2237.0	2237.0	2237.0	2237.0	2237.0	2237.0	2237.0
2.5°	2221.8	2221.8	2227.9	2234.0	2240.0	2240.0	2243.0	2246.1	2243.0
5°	2240.0	2240.0	2249.1	2252.2	2252.2	2249.1	2252.2	2252.2	2252.2
7.5°	2267.3	2261.2	2264.2	2258.3	2252.2	2249.1	2246.1	2246.1	2246.1
10°	2276.4	2270.3	2264.2	2252.2	2237.0	2227.9	2224.8	2227.9	2227.9
12.5°	2288.5	2282.4	2267.3	2243.0	2224.8	2209.7	2206.6	2212.7	2212.7
15°	2303.7	2297.6	2273.4	2234.0	2206.6	2191.5	2194.6	2200.7	2206.6
17.5°	2303.7	2291.6	2252.2	2200.7	2167.2	2152.1	2164.2	2179.4	2188.5
20°	2267.3	2255.2	2200.7	2137.0	2097.6	2088.4	2109.6	2137.0	2146.0
22.5°	2218.8	2194.6	2130.9	2055.1	2012.6	2012.6	2043.0	2076.3	2088.4
25°	2143.1	2124.9	2052.0	1964.2	1921.7	1918.7	1955.0	2000.6	2012.6
27.5°	2058.1	2033.9	1955.0	1864.1	1818.7	1821.7	1861.1	1906.6	1918.7
30°	1936.9	1906.6	1836.9	1748.9	1706.5	1718.7	1758.1	1791.4	1806.5
32.5°	1800.6	1773.2	1709.5	1627.8	1591.4	1603.5	1636.8	1667.2	1679.3
35°	1658.0	1627.8	1573.1	1500.4	1476.2	1488.3	1518.6	1542.8	1548.9
37.5°	1497.3	1476.2	1436.8	1379.2	1361.0	1376.2	1400.4	1415.6	1421.6
40°	1348.8	1330.7	1297.3	1254.9	1248.8	1261.0	1285.3	1294.3	1297.3
42.5°	1203.4	1188.2	1167.0	1136.6	1136.6	1148.8	1170.1	1176.0	1179.1
45°	1063.9	1054.9	1045.7	1021.4	1027.5	1042.7	1054.9	1063.9	1063.9
47.5°	942.7	945.7	933.6	915.4	921.5	936.6	945.7	954.8	954.8
50°	848.7	839.6	827.6	809.4	818.4	830.5	842.7	848.7	851.7
52.5°	739.6	736.5	727.5	706.3	712.4	718.3	730.5	739.6	742.6
55°	660.8	651.7	639.5	615.4	615.4	621.3	627.4	633.5	639.5
57.5°	585.0	575.9	557.8	530.4	527.4	527.4	524.3	530.4	539.6
60°	509.2	506.1	478.9	454.7	445.6	436.5	424.4	427.4	439.5
62.5°	442.6	436.5	412.2	381.9	363.7	348.6	333.5	330.4	342.5
65°	381.9	375.8	348.6	318.2	297.0	269.8	245.5	245.5	254.7
67.5°	327.4	315.2	291.0	257.6	230.4	197.1	172.8	178.9	181.8
70°	272.8	263.7	236.5	203.0	169.7	136.4	121.3	124.2	124.2
72.5°	224.3	212.2	184.9	151.6	118.2	87.9	81.9	78.8	78.8
75°	175.8	163.6	136.4	103.1	72.7	51.5	45.5	45.5	45.5
77.5°	127.3	118.2	94.0	63.7	39.4	24.3	21.2	18.2	18.2
80°	87.9	78.8	57.6	33.3	15.1	9.1	9.1	9.1	9.1
82.5°	51.5	42.5	27.3	15.1	6.1	3.0	3.0	3.0	3.0
85°	24.3	18.2	12.1	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)