

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: P582683

Luminaire Tested: **HCC6W45D010MB-HM64560935-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W45D010MB-HM64560935-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

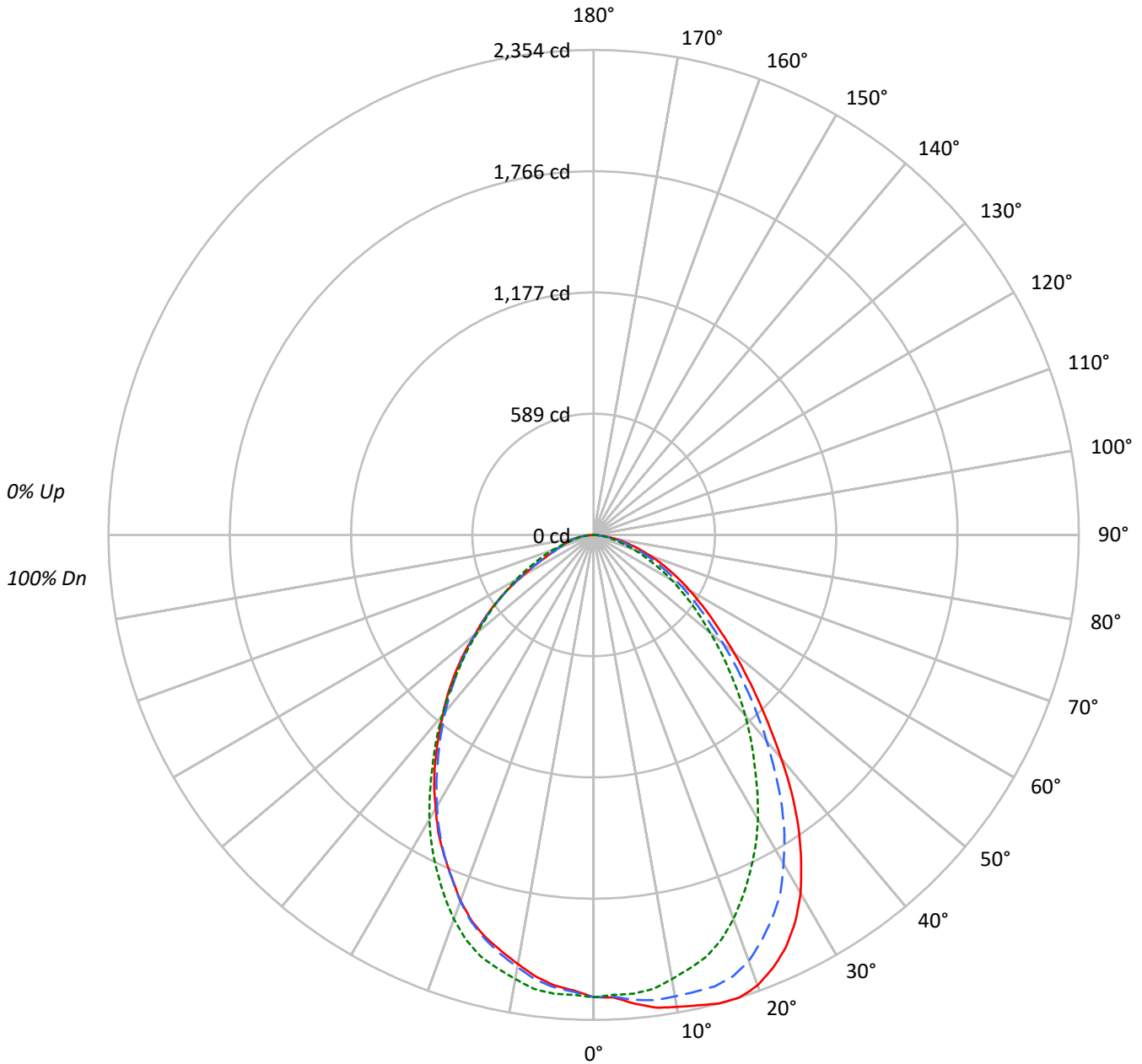
Lumens per Lamp: N/A
Luminaire Lumens: 4394.4 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P582683
CATALOG NUMBER: HCC6W45D010MB-HM64560935-61WWWB

Luminous Intensity Polar Plot





TEST NUMBER: P582683

CATALOG NUMBER: HCC6W45D010MB-HM64560935-61WWWB

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	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76								
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66								
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58								
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52								
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46								
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42								
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38								
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34								
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	123011	123011	123011
5°	125677	122980	120784
10°	129523	121841	117744
15°	133616	120216	114825
20°	135742	115708	110160
25°	133502	108847	103839
30°	127102	100908	97028
35°	115917	91082	89650
40°	101354	81825	81388
45°	87218	72015	73667
50°	75818	62744	64058
55°	66215	55080	55663
60°	58811	47726	43692
65°	52496	40173	33402
70°	46194	32922	28018
75°	39608	25968	26603
80°	31917	22257	26140
85°	21197	19247	23147



TEST NUMBER: P582683
 CATALOG NUMBER: HCC6W45D010MB-HM64560935-61WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.5	4.8
10°-20°	604.8	13.8
20°-30°	863.4	19.6
30°-40°	904.4	20.6
40°-50°	761.5	17.3
50°-60°	542.0	12.3
60°-70°	317.2	7.2
70°-80°	150.1	3.4
80°-90°	38.6	0.9
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°	1680.7	38.2
0°-40°	2585.1	58.8
0°-60°	3888.5	88.5
0°-90°	4394.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4394.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2244	2244	2244	2244	2244	
5°	2284	2265	2235	2204	2195	219
15°	2354	2268	2118	2032	2023	665
25°	2207	2051	1800	1714	1717	1010
35°	1732	1588	1361	1315	1340	1076
45°	1125	1042	929	932	950	873
55°	693	635	576	576	582	624
65°	405	359	310	260	258	404
75°	187	156	123	120	126	201
85°	34	28	31	37	37	44
90°	0	0	0	0	0	

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



TEST NUMBER: P582683

CATALOG NUMBER: HCC6W45D010MB-HM64560935-61WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2243.9	2243.9	2243.9	2243.9	2243.9	2243.9	2243.9	2243.9	2243.9
2.5°	2247.0	2247.0	2243.9	2240.9	2234.8	2225.5	2219.4	2213.3	2213.3
5°	2283.8	2277.6	2265.4	2250.0	2234.8	2216.4	2204.1	2194.9	2194.9
7.5°	2314.4	2302.2	2277.6	2250.0	2222.5	2198.0	2176.5	2164.2	2161.1
10°	2326.8	2311.4	2274.6	2231.6	2188.8	2155.0	2130.5	2115.2	2115.2
12.5°	2339.0	2320.5	2271.5	2210.3	2155.0	2109.1	2084.5	2072.2	2069.2
15°	2354.3	2329.8	2268.5	2191.9	2118.2	2066.1	2032.5	2023.2	2023.2
17.5°	2354.3	2323.6	2247.0	2152.0	2060.0	2001.7	1971.1	1962.0	1965.0
20°	2326.8	2293.0	2201.0	2084.5	1983.4	1922.1	1891.5	1885.2	1888.3
22.5°	2274.6	2234.8	2130.5	2004.9	1894.5	1830.1	1802.5	1802.5	1799.5
25°	2207.1	2164.2	2050.9	1919.0	1799.5	1735.1	1713.6	1716.7	1716.7
27.5°	2118.2	2075.4	1962.0	1821.0	1701.3	1636.9	1621.7	1627.8	1630.8
30°	2007.9	1962.0	1842.3	1704.4	1594.1	1529.7	1520.4	1529.7	1532.8
32.5°	1873.0	1839.3	1722.8	1581.8	1477.6	1422.4	1419.3	1428.5	1440.8
35°	1732.1	1695.2	1587.9	1459.2	1361.0	1315.1	1315.1	1330.4	1339.6
37.5°	1578.7	1541.9	1443.8	1336.5	1253.8	1210.9	1217.0	1232.4	1235.4
40°	1416.3	1388.7	1305.9	1213.9	1143.4	1109.7	1118.9	1134.3	1137.3
42.5°	1263.0	1238.5	1171.0	1088.3	1036.1	1011.6	1023.9	1042.3	1048.4
45°	1125.0	1097.5	1042.3	971.7	928.9	916.6	931.9	944.1	950.2
47.5°	999.4	974.9	928.9	864.5	833.8	827.7	843.0	849.1	855.2
50°	889.0	864.5	818.5	760.2	735.7	735.7	748.0	754.1	751.1
52.5°	781.7	760.2	717.3	668.3	653.0	653.0	662.2	665.2	671.3
55°	692.8	671.3	634.6	588.6	576.3	570.2	576.3	576.3	582.4
57.5°	610.1	591.7	557.9	514.9	499.7	493.6	490.4	487.4	493.6
60°	536.4	521.2	484.3	447.6	435.3	419.9	407.7	395.4	398.5
62.5°	469.0	453.7	419.9	383.2	370.9	349.4	334.2	318.8	324.9
65°	404.7	389.3	358.7	328.0	309.7	285.0	260.5	251.4	257.5
67.5°	346.4	334.2	303.5	272.8	257.5	229.9	205.4	205.4	208.4
70°	288.2	275.9	251.4	223.8	205.4	180.9	171.6	174.8	174.8
72.5°	236.0	226.9	202.3	177.8	159.4	144.0	144.0	147.1	150.3
75°	187.0	180.9	156.4	134.9	122.6	113.4	119.5	122.6	125.6
77.5°	144.0	134.9	116.5	101.1	92.0	95.0	101.1	104.3	107.3
80°	101.1	98.1	82.8	73.5	70.5	73.5	79.6	82.8	82.8
82.5°	64.4	61.3	52.1	49.0	49.0	52.1	58.3	58.3	58.3
85°	33.7	30.6	27.6	27.6	30.6	33.7	36.8	36.8	36.8
87.5°	12.3	9.1	12.3	12.3	15.4	15.4	15.4	15.4	15.4
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)