

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: P592723

Luminaire Tested: **HCC4W25D010MW-HM40525950-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W25D010MW-HM40525950-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

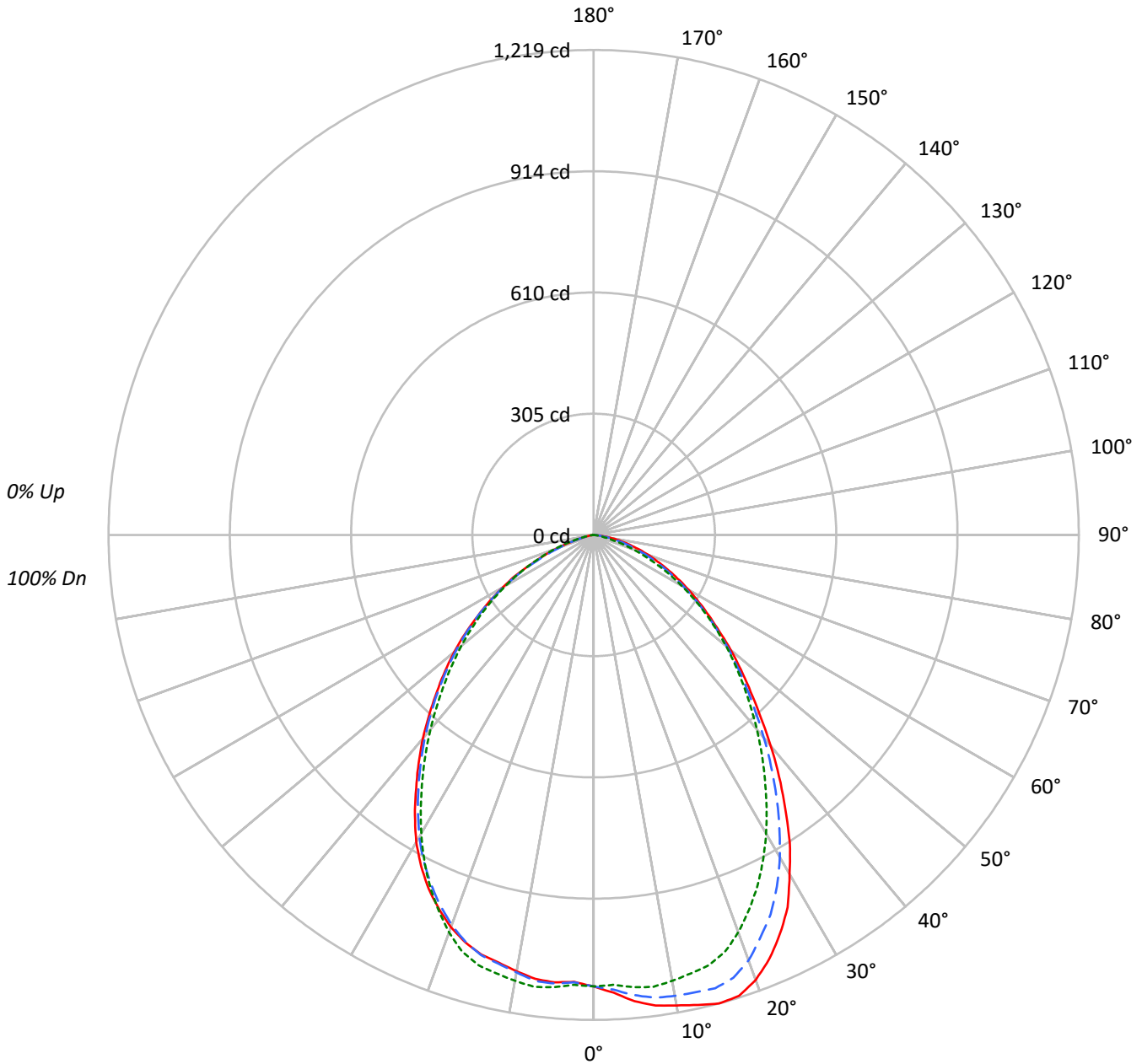
Lumens per Lamp: N/A
Luminaire Lumens: 2365.1 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 26.8
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: P592723
CATALOG NUMBER: HCC4W25D010MW-HM40525950-41RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P592723

CATALOG NUMBER: HCC4W25D010MW-HM40525950-41RWWC

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	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76								
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67								
4	87	77	69	63	85	76	68	63	73	67	62	71	66	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	49	44	56	49	44	54	48	44	53	47	43	41								
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37								
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34								
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	139997	139997	139997
5°	145658	141287	139764
10°	150411	142533	139464
15°	155701	142969	139445
20°	156228	139505	137707
25°	150700	132545	133593
30°	140234	123413	126917
35°	126334	112933	117104
40°	111375	102728	107414
45°	97388	92556	97109
50°	86217	83300	87695
55°	75868	73546	76535
60°	67741	62808	64707
65°	59540	51046	50112
70°	52004	37615	34297
75°	43130	22637	18300
80°	32746	8737	5469
85°	15143	2264	2264



TEST NUMBER: P592723

CATALOG NUMBER: HCC4W25D010MW-HM40525950-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.5	4.6
10°-20°	319.5	13.5
20°-30°	462.7	19.6
30°-40°	488.1	20.6
40°-50°	422.4	17.9
50°-60°	312.9	13.2
60°-70°	180.4	7.6
70°-80°	63.0	2.7
80°-90°	6.6	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°	891.6	37.7
0°-40°	1379.7	58.3
0°-60°	2115.1	89.4
0°-90°	2365.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2365.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1135	1135	1135	1135	1135	
5°	1176	1161	1141	1132	1129	113
15°	1219	1180	1120	1094	1092	343
25°	1107	1052	974	968	982	507
35°	839	801	750	767	778	524
45°	558	543	531	551	557	433
55°	353	345	342	354	356	318
65°	204	192	175	166	172	204
75°	90	77	48	38	38	97
85°	11	6	2	2	2	17
90°	0	0	0	0	0	



TEST NUMBER: P592723

CATALOG NUMBER: HCC4W25D010MW-HM40525950-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1135.0	1135.0	1135.0	1135.0	1135.0	1135.0	1135.0	1135.0	1135.0
2.5°	1151.8	1148.8	1144.1	1138.0	1131.9	1127.3	1125.7	1124.3	1124.3
5°	1176.4	1170.2	1161.1	1148.8	1141.1	1136.5	1131.9	1128.8	1128.8
7.5°	1193.2	1187.1	1173.3	1156.4	1145.7	1136.5	1130.4	1125.7	1125.7
10°	1200.9	1193.2	1176.4	1154.9	1138.0	1125.7	1116.6	1113.5	1113.5
12.5°	1210.1	1200.9	1177.9	1150.3	1128.8	1113.5	1104.3	1101.2	1101.2
15°	1219.3	1208.6	1179.5	1147.2	1119.6	1101.2	1093.5	1092.0	1092.0
17.5°	1214.7	1200.9	1167.2	1128.8	1098.2	1079.8	1072.1	1072.1	1073.6
20°	1190.2	1176.4	1138.0	1095.1	1062.8	1049.1	1043.0	1046.0	1049.1
22.5°	1153.4	1136.5	1095.1	1053.7	1019.9	1007.6	1007.6	1012.3	1016.9
25°	1107.3	1092.0	1052.1	1006.2	973.9	964.7	967.8	975.5	981.6
27.5°	1055.2	1038.3	996.9	954.0	921.7	917.2	924.9	935.6	938.7
30°	984.6	970.8	935.6	894.2	866.5	865.0	875.8	883.4	891.1
32.5°	917.2	901.8	868.1	828.2	808.3	809.8	822.0	831.3	835.9
35°	839.0	825.2	800.6	768.4	750.0	753.0	766.8	776.1	777.7
37.5°	765.3	756.1	731.6	707.1	693.2	699.4	711.6	722.3	722.3
40°	691.7	684.1	665.7	645.7	638.0	645.7	658.0	667.1	667.1
42.5°	621.2	616.5	601.2	587.4	582.8	593.5	604.2	611.9	610.5
45°	558.3	553.7	542.9	532.2	530.6	541.4	550.6	555.2	556.7
47.5°	501.5	498.5	489.3	481.6	481.6	492.4	500.0	504.6	506.1
50°	449.3	446.3	438.6	432.5	434.1	444.8	450.9	455.6	457.0
52.5°	397.2	395.7	389.6	381.9	386.5	394.1	401.8	404.9	406.4
55°	352.8	352.8	345.1	338.9	342.0	349.7	354.3	355.9	355.9
57.5°	312.8	311.4	302.1	296.0	297.5	305.2	308.3	309.8	309.8
60°	274.6	273.0	263.8	254.6	254.6	259.2	260.7	262.3	262.3
62.5°	237.8	236.2	225.5	217.8	214.7	213.2	213.2	216.2	222.4
65°	204.0	202.4	191.7	179.4	174.9	170.3	165.6	168.7	171.7
67.5°	173.3	170.3	159.5	148.8	138.1	130.4	122.7	127.4	133.4
70°	144.2	141.1	128.8	116.5	104.3	92.0	85.9	92.0	95.1
72.5°	116.5	113.5	101.3	89.0	73.6	61.3	59.8	61.3	62.9
75°	90.5	89.0	76.7	62.9	47.5	38.4	38.4	38.4	38.4
77.5°	67.5	64.5	52.2	39.9	27.7	21.5	20.0	20.0	20.0
80°	46.1	42.9	32.2	23.0	12.3	9.3	9.3	7.7	7.7
82.5°	26.1	24.5	16.8	9.3	4.6	3.0	3.0	3.0	3.0
85°	10.7	9.3	6.1	3.0	1.6	1.6	1.6	1.6	1.6
87.5°	1.6	1.6	1.6	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)