

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: P579863

Luminaire Tested: **HCC4S15D010MB-HM40525830-41WWWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S15D010MB-HM40525830-41WWWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

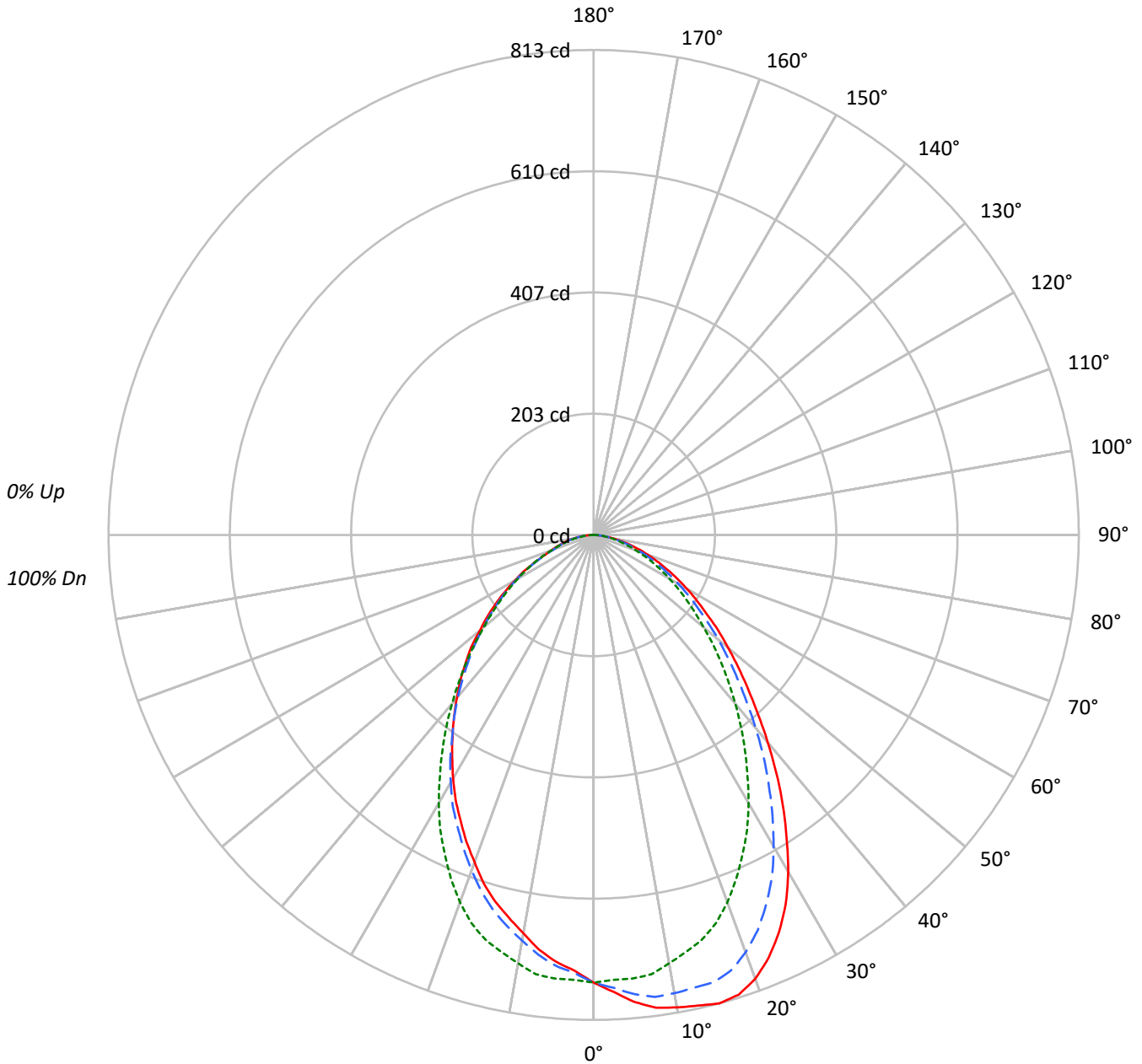
Lumens per Lamp: N/A
Luminaire Lumens: 1455.2 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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: P579863
CATALOG NUMBER: HCC4S15D010MB-HM40525830-41WWWB

Luminous Intensity Polar Plot





TEST NUMBER: P579863

CATALOG NUMBER: HCC4S15D010MB-HM40525830-41WWWB

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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87								
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75								
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66								
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58								
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51								
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46								
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41								
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37								
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34								
10	58	45	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	92559	92559	92559
5°	97320	92442	88975
10°	100737	91331	84931
15°	103817	89669	81305
20°	103933	85976	76617
25°	100031	80352	71846
30°	92891	73948	67097
35°	83254	66585	62083
40°	73053	59415	57386
45°	63844	52593	52942
50°	56378	46035	47685
55°	49719	40816	42880
60°	44429	36116	37546
65°	39343	31754	31754
70°	34405	27120	27120
75°	29357	22971	25687
80°	23227	20528	23227
85°	15001	17690	21936



TEST NUMBER: P579863
 CATALOG NUMBER: HCC4S15D010MB-HM40525830-41WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	4.9
10°-20°	200.2	13.8
20°-30°	280.5	19.3
30°-40°	289.0	19.9
40°-50°	246.0	16.9
50°-60°	182.3	12.5
60°-70°	114.4	7.9
70°-80°	56.8	3.9
80°-90°	14.9	1.0
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°	551.8	37.9
0°-40°	840.8	57.8
0°-60°	1269.1	87.2
0°-90°	1455.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1455.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	750	750	750	750	750	
5°	786	773	747	725	719	76
15°	813	776	702	651	637	229
25°	735	684	590	539	528	336
35°	553	512	442	413	412	345
45°	366	341	302	296	304	284
55°	231	213	190	194	199	209
65°	135	121	109	107	109	134
75°	62	55	48	52	54	66
85°	11	11	12	14	16	14
90°	0	0	0	0	0	



TEST NUMBER: P579863

CATALOG NUMBER: HCC4S15D010MB-HM40525830-41WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	750.4	750.4	750.4	750.4	750.4	750.4	750.4	750.4	750.4
2.5°	766.8	763.8	760.0	753.3	746.6	740.8	735.0	732.1	731.1
5°	786.0	780.2	772.6	760.0	746.6	735.0	725.3	720.5	718.6
7.5°	799.5	793.7	781.2	761.9	742.7	725.3	709.9	703.2	701.3
10°	804.3	797.6	780.2	754.3	729.2	708.0	690.6	682.0	678.1
12.5°	808.2	799.5	777.4	746.6	715.7	689.7	671.4	659.8	657.0
15°	813.0	803.4	776.3	738.8	702.2	671.4	651.2	640.6	636.7
17.5°	808.2	797.6	765.8	723.4	682.0	648.3	626.1	616.5	612.6
20°	791.8	780.2	744.6	699.4	655.0	620.3	598.2	588.5	583.7
22.5°	766.8	754.3	717.7	669.5	624.2	590.4	569.3	559.6	556.8
25°	735.0	722.4	683.9	634.8	590.4	557.7	539.4	530.8	527.9
27.5°	697.4	684.9	647.3	599.2	556.8	526.0	511.5	502.8	500.8
30°	652.2	639.6	603.0	558.7	519.2	490.3	478.8	472.0	471.1
32.5°	602.0	591.5	557.7	517.2	479.7	455.6	447.0	442.2	441.2
35°	552.9	541.3	511.5	474.9	442.2	420.9	413.2	412.3	412.3
37.5°	502.8	491.3	467.2	433.4	405.6	386.2	383.4	384.3	384.3
40°	453.7	443.1	421.9	394.0	369.0	354.5	353.5	355.4	356.4
42.5°	407.5	398.7	379.5	355.4	334.3	322.7	323.7	327.5	330.4
45°	366.0	358.4	341.0	319.8	301.5	292.8	295.7	300.5	303.5
47.5°	328.5	321.8	305.4	286.1	270.7	264.9	268.8	274.6	278.3
50°	293.8	288.0	272.7	252.4	239.9	236.0	240.8	246.6	248.5
52.5°	263.0	257.2	240.8	223.5	213.9	211.9	216.7	221.6	224.4
55°	231.2	226.4	212.8	197.5	189.8	188.9	193.6	197.5	199.4
57.5°	205.2	200.3	187.8	174.3	167.6	166.7	171.5	174.3	175.3
60°	180.1	175.3	163.7	151.2	146.4	146.4	149.3	151.2	152.2
62.5°	157.0	152.2	141.6	131.0	127.1	127.1	127.1	128.1	131.0
65°	134.8	131.0	121.3	111.8	108.8	106.9	106.9	106.9	108.8
67.5°	114.6	110.7	103.1	94.4	91.5	88.6	87.7	89.6	89.6
70°	95.4	92.4	84.8	78.0	75.2	72.2	71.3	75.2	75.2
72.5°	78.0	75.2	70.3	63.6	60.7	59.7	61.6	63.6	64.6
75°	61.6	58.8	54.9	51.1	48.2	49.1	52.0	53.0	53.9
77.5°	46.3	45.3	41.4	38.5	38.5	39.5	41.4	43.3	44.3
80°	32.7	31.8	29.9	28.0	28.9	30.8	31.8	33.8	32.7
82.5°	20.2	20.2	19.2	19.2	20.2	22.2	23.1	24.1	25.0
85°	10.6	10.6	10.6	11.6	12.5	13.5	14.4	15.5	15.5
87.5°	2.8	3.9	3.9	4.8	5.8	5.8	6.7	6.7	6.7
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)