

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: P579877

Luminaire Tested: **HCC4S15D010MB-HM40525835-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579877
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: HCC4S15D010MB-HM40525835-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

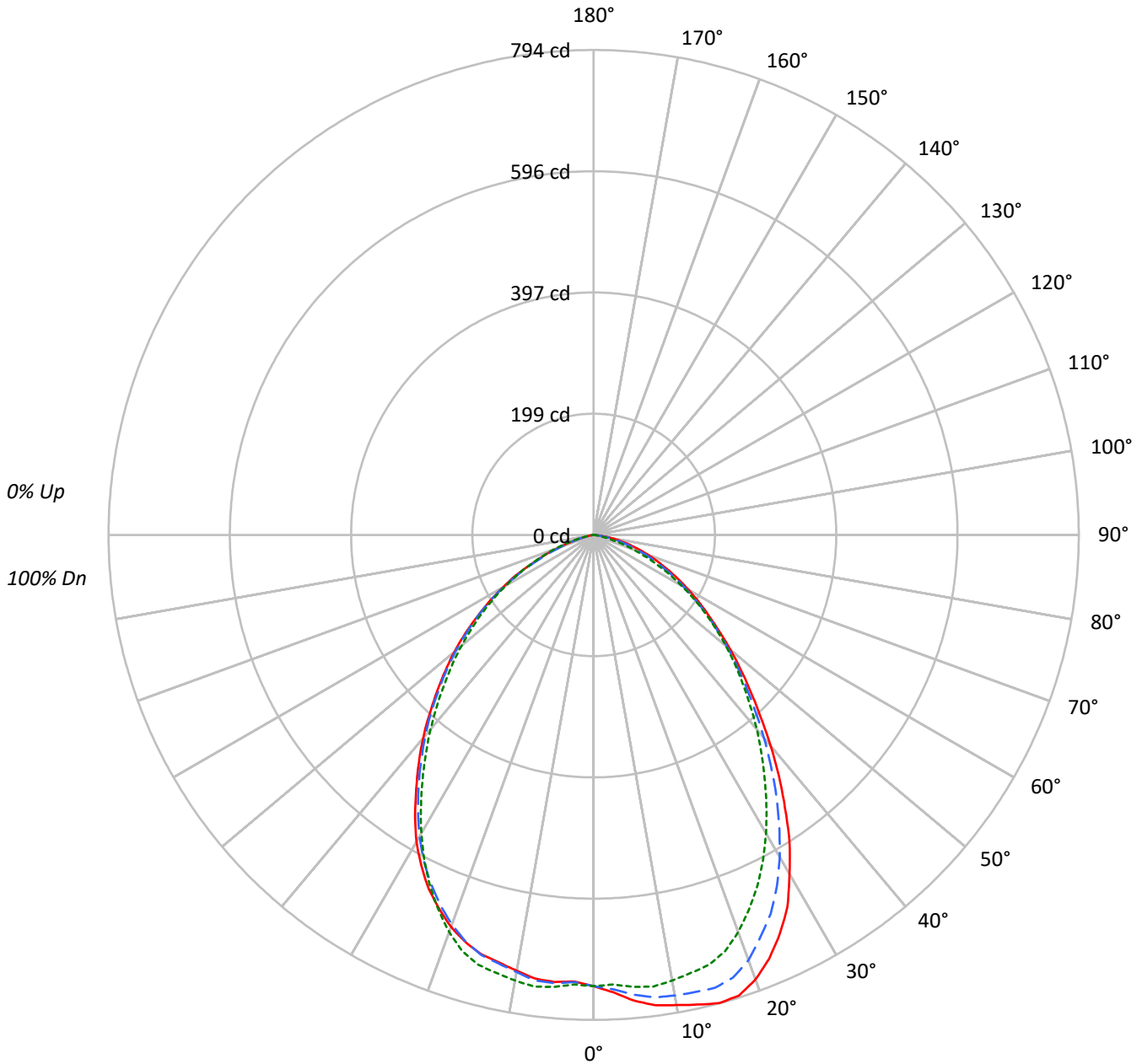
Lumens per Lamp: N/A
Luminaire Lumens: 1539.4 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P579877
CATALOG NUMBER: HCC4S15D010MB-HM40525835-41RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P579877

CATALOG NUMBER: HCC4S15D010MB-HM40525835-41RWWC

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	62	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°	91115	91115	91115
5°	94807	91959	90968
10°	97907	92784	90768
15°	101340	93053	90754
20°	101675	90807	89625
25°	98085	86272	86952
30°	91282	80343	82608
35°	82230	73497	76207
40°	72506	66854	69913
45°	63390	60251	63216
50°	56109	54209	57069
55°	49375	47869	49805
60°	44084	40877	42110
65°	38759	33214	32630
70°	33828	24487	22324
75°	28070	14726	11867
80°	21239	5683	3552
85°	9765	1415	1415



TEST NUMBER: P579877

CATALOG NUMBER: HCC4S15D010MB-HM40525835-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.2	4.6
10°-20°	207.9	13.5
20°-30°	301.1	19.6
30°-40°	317.7	20.6
40°-50°	275.0	17.9
50°-60°	203.7	13.2
60°-70°	117.4	7.6
70°-80°	41.0	2.7
80°-90°	4.3	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°	580.3	37.7
0°-40°	898.0	58.3
0°-60°	1376.7	89.4
0°-90°	1539.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1539.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	739	739	739	739	739	
5°	766	756	743	737	735	74
15°	794	768	729	712	711	223
25°	721	685	634	630	639	330
35°	546	521	488	499	506	341
45°	363	353	345	358	362	282
55°	230	225	223	231	232	207
65°	133	125	114	108	112	133
75°	59	50	31	25	25	63
85°	7	4	1	1	1	11
90°	0	0	0	0	0	



TEST NUMBER: P579877

CATALOG NUMBER: HCC4S15D010MB-HM40525835-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	738.7	738.7	738.7	738.7	738.7	738.7	738.7	738.7	738.7
2.5°	749.7	747.7	744.7	740.8	736.7	733.7	732.7	731.8	731.8
5°	765.7	761.7	755.7	747.7	742.7	739.7	736.7	734.7	734.7
7.5°	776.7	772.7	763.7	752.7	745.8	739.7	735.8	732.7	732.7
10°	781.7	776.7	765.7	751.7	740.8	732.7	726.8	724.7	724.7
12.5°	787.6	781.7	766.7	748.7	734.7	724.7	718.7	716.8	716.8
15°	793.6	786.6	767.7	746.7	728.7	716.8	711.8	710.7	710.7
17.5°	790.7	781.7	759.6	734.7	714.7	702.8	697.8	697.8	698.8
20°	774.6	765.7	740.8	712.8	691.8	682.8	678.8	680.8	682.8
22.5°	750.6	739.7	712.8	685.8	663.9	655.8	655.8	658.9	661.8
25°	720.7	710.7	684.8	654.9	633.9	628.0	629.9	634.9	638.9
27.5°	686.9	675.8	648.9	620.9	600.0	596.9	601.9	609.0	610.9
30°	640.9	631.9	609.0	582.0	564.1	563.0	570.0	575.0	580.0
32.5°	596.9	587.0	565.0	539.1	526.1	527.1	535.1	541.1	544.1
35°	546.1	537.1	521.1	500.2	488.1	490.2	499.1	505.2	506.1
37.5°	498.1	492.1	476.2	460.1	451.2	455.3	463.2	470.1	470.1
40°	450.3	445.2	433.2	420.2	415.2	420.2	428.3	434.2	434.2
42.5°	404.3	401.2	391.4	382.4	379.3	386.4	393.3	398.3	397.3
45°	363.4	360.4	353.4	346.4	345.4	352.4	358.4	361.3	362.4
47.5°	326.4	324.4	318.5	313.5	313.5	320.4	325.4	328.5	329.4
50°	292.4	290.5	285.5	281.5	282.5	289.5	293.5	296.5	297.4
52.5°	258.6	257.5	253.6	248.5	251.6	256.5	261.5	263.6	264.6
55°	229.6	229.6	224.6	220.6	222.6	227.6	230.6	231.6	231.6
57.5°	203.6	202.6	196.7	192.7	193.6	198.6	200.7	201.7	201.7
60°	178.7	177.7	171.7	165.7	165.7	168.7	169.8	170.7	170.7
62.5°	154.7	153.7	146.8	141.8	139.7	138.7	138.7	140.8	144.7
65°	132.8	131.8	124.7	116.8	113.8	110.9	107.8	109.8	111.8
67.5°	112.8	110.9	103.8	96.9	89.8	84.8	79.8	82.9	86.9
70°	93.8	91.9	83.9	75.8	67.9	59.9	55.9	59.9	61.9
72.5°	75.8	73.9	65.8	57.9	47.9	39.9	38.9	39.9	40.9
75°	58.9	57.9	49.9	40.9	30.9	24.9	24.9	24.9	24.9
77.5°	43.9	42.0	34.0	25.9	18.0	14.0	13.0	13.0	13.0
80°	29.9	28.0	20.9	15.0	8.0	6.0	6.0	5.0	5.0
82.5°	16.9	15.9	11.0	6.0	3.0	2.0	2.0	2.0	2.0
85°	6.9	6.0	4.0	2.0	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	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)