

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: P579859

Luminaire Tested: **HCC4W15D010MB-HM40525830-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579859
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: HCC4W15D010MB-HM40525830-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

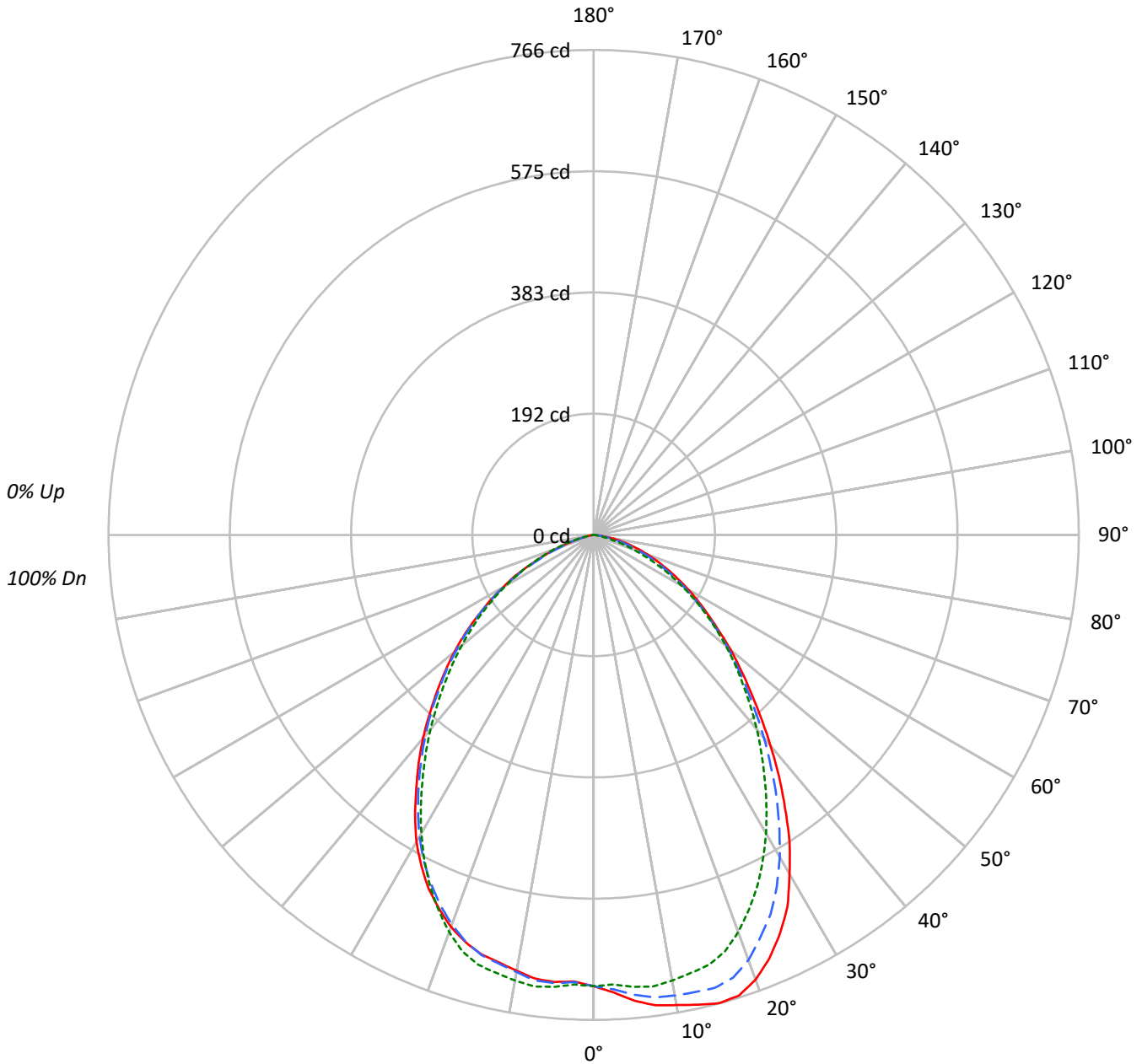
Lumens per Lamp: N/A
Luminaire Lumens: 1485.1 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P579859
CATALOG NUMBER: HCC4W15D010MB-HM40525830-41RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P579859

CATALOG NUMBER: HCC4W15D010MB-HM40525830-41RWWC

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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76					76			
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67					67			
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58					58			
5	81	70	62	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52					52			
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46					46			
7	70	58	50	44	69	57	49	44	56	49	44	54	48	44	53	47	43	41					41			
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37					37			
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34					34			
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31					31			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	87908	87908	87908
5°	91463	88715	87761
10°	94450	89503	87561
15°	97777	89771	87562
20°	98105	87604	86475
25°	94642	83237	83890
30°	88063	77509	79688
35°	79324	70907	73512
40°	69929	64519	67466
45°	61140	58140	60983
50°	54152	52290	55073
55°	47633	46192	48041
60°	42530	39446	40605
65°	37387	32046	31492
70°	32638	23622	21530
75°	27069	14249	11485
80°	20528	5469	3410
85°	9482	1274	1274



TEST NUMBER: P579859
 CATALOG NUMBER: HCC4W15D010MB-HM40525830-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	4.6
10°-20°	200.6	13.5
20°-30°	290.5	19.6
30°-40°	306.5	20.6
40°-50°	265.3	17.9
50°-60°	196.5	13.2
60°-70°	113.3	7.6
70°-80°	39.6	2.7
80°-90°	4.1	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°	559.9	37.7
0°-40°	866.4	58.3
0°-60°	1328.1	89.4
0°-90°	1485.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1485.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	713	713	713	713	713	
5°	739	729	716	711	709	71
15°	766	741	703	687	686	215
25°	695	661	612	608	616	318
35°	527	503	471	482	488	329
45°	350	341	333	346	350	272
55°	222	217	215	222	223	200
65°	128	120	110	104	108	128
75°	57	48	30	24	24	61
85°	7	4	1	1	1	10
90°	0	0	0	0	0	



TEST NUMBER: P579859

CATALOG NUMBER: HCC4W15D010MB-HM40525830-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	712.7	712.7	712.7	712.7	712.7	712.7	712.7	712.7	712.7
2.5°	723.2	721.3	718.5	714.6	710.7	707.9	706.9	706.0	706.0
5°	738.7	734.8	729.0	721.3	716.5	713.6	710.7	708.8	708.8
7.5°	749.3	745.4	736.8	726.2	719.4	713.6	709.8	706.9	706.9
10°	754.1	749.3	738.7	725.2	714.6	706.9	701.1	699.1	699.1
12.5°	759.9	754.1	739.6	722.3	708.8	699.1	693.5	691.5	691.5
15°	765.7	758.9	740.6	720.4	703.0	691.5	686.6	685.7	685.7
17.5°	762.7	754.1	732.9	708.8	689.6	678.0	673.2	673.2	674.1
20°	747.4	738.7	714.6	687.7	667.4	658.8	654.9	656.8	658.8
22.5°	724.3	713.6	687.7	661.6	640.5	632.7	632.7	635.6	638.5
25°	695.4	685.7	660.7	631.8	611.6	605.8	607.7	612.5	616.4
27.5°	662.6	652.0	626.0	599.1	578.8	575.9	580.8	587.5	589.4
30°	618.3	609.7	587.5	561.5	544.2	543.1	550.0	554.7	559.5
32.5°	575.9	566.3	545.1	520.1	507.6	508.5	516.2	522.0	524.8
35°	526.8	518.1	502.7	482.5	470.9	472.9	481.5	487.3	488.2
37.5°	480.6	474.8	459.3	444.0	435.4	439.1	446.8	453.7	453.7
40°	434.3	429.6	418.0	405.5	400.7	405.5	413.2	419.0	419.0
42.5°	390.0	387.1	377.5	368.8	366.0	372.7	379.4	384.3	383.3
45°	350.5	347.7	340.9	334.2	333.3	340.0	345.8	348.6	349.6
47.5°	314.9	313.0	307.2	302.4	302.4	309.2	313.9	316.9	317.8
50°	282.2	280.3	275.5	271.6	272.5	279.2	283.1	286.1	287.0
52.5°	249.5	248.4	244.6	239.8	242.7	247.5	252.3	254.2	255.3
55°	221.5	221.5	216.7	212.8	214.8	219.6	222.5	223.4	223.4
57.5°	196.5	195.5	189.8	185.9	186.8	191.7	193.6	194.5	194.5
60°	172.4	171.5	165.7	159.9	159.9	162.7	163.7	164.6	164.6
62.5°	149.3	148.3	141.6	136.8	134.8	133.8	133.8	135.8	139.6
65°	128.1	127.1	120.4	112.7	109.8	106.9	104.0	106.0	107.9
67.5°	108.8	106.9	100.2	93.5	86.6	81.9	77.1	79.9	83.8
70°	90.5	88.6	81.0	73.2	65.5	57.8	53.9	57.8	59.7
72.5°	73.2	71.3	63.6	55.8	46.3	38.5	37.5	38.5	39.5
75°	56.8	55.8	48.2	39.5	29.9	24.1	24.1	24.1	24.1
77.5°	42.4	40.5	32.7	25.0	17.3	13.5	12.5	12.5	12.5
80°	28.9	26.9	20.2	14.4	7.7	5.8	5.8	4.8	4.8
82.5°	16.4	15.5	10.6	5.8	2.8	1.9	1.9	1.9	1.9
85°	6.7	5.8	3.9	1.9	0.9	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.9	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)