

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: P579917

Luminaire Tested: **HCC4S15D010BZ-HM40525927-41WWWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579917
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: HCC4S15D010BZ-HM40525927-41WWWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

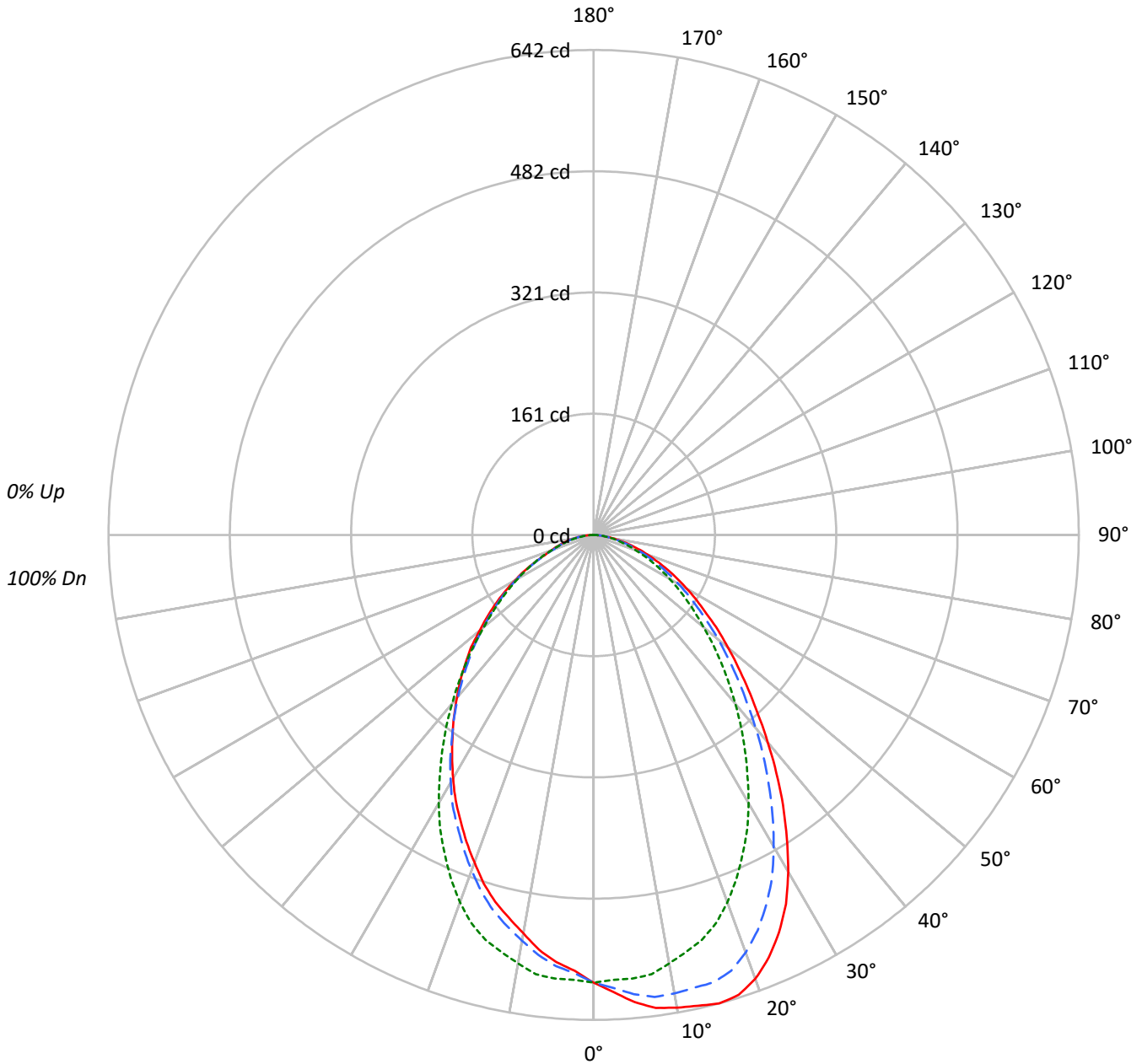
Lumens per Lamp: N/A
Luminaire Lumens: 1149.5 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P579917
CATALOG NUMBER: HCC4S15D010BZ-HM40525927-41WWWB

Luminous Intensity Polar Plot



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



TEST NUMBER: P579917

CATALOG NUMBER: HCC4S15D010BZ-HM40525927-41WWWB

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°	73107	73107	73107
5°	76878	73002	70278
10°	79583	72143	67083
15°	82007	70821	64219
20°	82104	67915	60525
25°	79018	63476	56739
30°	73364	58409	52983
35°	65757	52597	49028
40°	57708	46920	45326
45°	50430	41551	41813
50°	44538	36344	37688
55°	39267	32235	33870
60°	35079	28518	29652
65°	31083	25100	25100
70°	27192	21422	21422
75°	23209	18157	20302
80°	18397	16266	18397
85°	11888	14011	17266



TEST NUMBER: P579917
 CATALOG NUMBER: HCC4S15D010BZ-HM40525927-41WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	4.9
10°-20°	158.1	13.8
20°-30°	221.6	19.3
30°-40°	228.3	19.9
40°-50°	194.3	16.9
50°-60°	144.0	12.5
60°-70°	90.4	7.9
70°-80°	44.9	3.9
80°-90°	11.8	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°	435.9	37.9
0°-40°	664.1	57.8
0°-60°	1002.4	87.2
0°-90°	1149.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1149.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	593	593	593	593	593	
5°	621	610	590	573	568	60
15°	642	613	555	514	503	181
25°	581	540	466	426	417	266
35°	437	404	349	326	326	272
45°	289	269	238	234	240	224
55°	183	168	150	153	158	165
65°	106	96	86	84	86	106
75°	49	43	38	41	43	52
85°	8	8	10	11	12	11
90°	0	0	0	0	0	

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



TEST NUMBER: P579917

CATALOG NUMBER: HCC4S15D010BZ-HM40525927-41WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	592.7	592.7	592.7	592.7	592.7	592.7	592.7	592.7	592.7
2.5°	605.7	603.4	600.3	595.0	589.6	585.1	580.6	578.3	577.5
5°	620.9	616.3	610.2	600.3	589.6	580.6	572.9	569.2	567.6
7.5°	631.5	626.9	617.0	601.8	586.6	572.9	560.8	555.4	553.9
10°	635.4	630.0	616.3	595.8	576.0	559.3	545.5	538.7	535.6
12.5°	638.4	631.5	614.0	589.6	565.3	544.7	530.3	521.2	518.9
15°	642.2	634.6	613.3	583.6	554.6	530.3	514.4	506.0	502.9
17.5°	638.4	630.0	604.9	571.5	538.7	512.1	494.6	487.0	483.9
20°	625.5	616.3	588.2	552.4	517.4	490.0	472.5	464.9	461.1
22.5°	605.7	595.8	566.8	528.8	493.0	466.4	449.7	442.1	439.8
25°	580.6	570.7	540.2	501.4	466.4	440.6	426.0	419.2	416.9
27.5°	550.9	541.0	511.3	473.2	439.8	415.5	404.0	397.2	395.7
30°	515.1	505.2	476.3	441.3	410.1	387.3	378.2	372.8	372.0
32.5°	475.5	467.2	440.6	408.6	379.0	359.9	353.0	349.3	348.5
35°	436.7	427.6	404.0	375.1	349.3	332.5	326.4	325.6	325.6
37.5°	397.2	388.1	369.1	342.4	320.3	305.1	302.8	303.6	303.6
40°	358.4	350.0	333.3	311.2	291.4	280.0	279.2	280.7	281.5
42.5°	321.9	314.9	299.8	280.7	264.0	254.9	255.6	258.7	260.9
45°	289.1	283.0	269.4	252.6	238.2	231.3	233.5	237.4	239.7
47.5°	259.5	254.1	241.2	226.0	213.8	209.2	212.3	216.8	219.9
50°	232.1	227.5	215.3	199.3	189.4	186.5	190.2	194.8	196.4
52.5°	207.7	203.2	190.2	176.6	169.0	167.4	171.2	175.0	177.3
55°	182.6	178.9	168.2	156.0	149.9	149.2	152.9	156.0	157.5
57.5°	162.0	158.3	148.4	137.7	132.3	131.7	135.4	137.7	138.5
60°	142.2	138.5	129.4	119.5	115.6	115.6	117.9	119.5	120.2
62.5°	124.0	120.2	111.9	103.5	100.4	100.4	100.4	101.2	103.5
65°	106.5	103.5	95.8	88.2	86.0	84.5	84.5	84.5	86.0
67.5°	90.5	87.5	81.4	74.6	72.3	70.0	69.2	70.7	70.7
70°	75.4	73.0	67.0	61.6	59.4	57.1	56.3	59.4	59.4
72.5°	61.6	59.4	55.6	50.3	48.0	47.2	48.7	50.3	50.9
75°	48.7	46.4	43.3	40.4	38.1	38.8	41.0	41.8	42.6
77.5°	36.5	35.8	32.7	30.5	30.5	31.2	32.7	34.2	35.0
80°	25.9	25.1	23.5	22.1	22.9	24.3	25.1	26.6	25.9
82.5°	16.0	16.0	15.2	15.2	16.0	17.5	18.3	19.0	19.8
85°	8.4	8.4	8.4	9.1	9.9	10.7	11.4	12.2	12.2
87.5°	2.3	3.1	3.1	3.8	4.5	4.5	5.3	5.3	5.3
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)