

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: P593738

Luminaire Tested: **HCC8W40D010SL-HM82555950-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W40D010SL-HM82555950-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

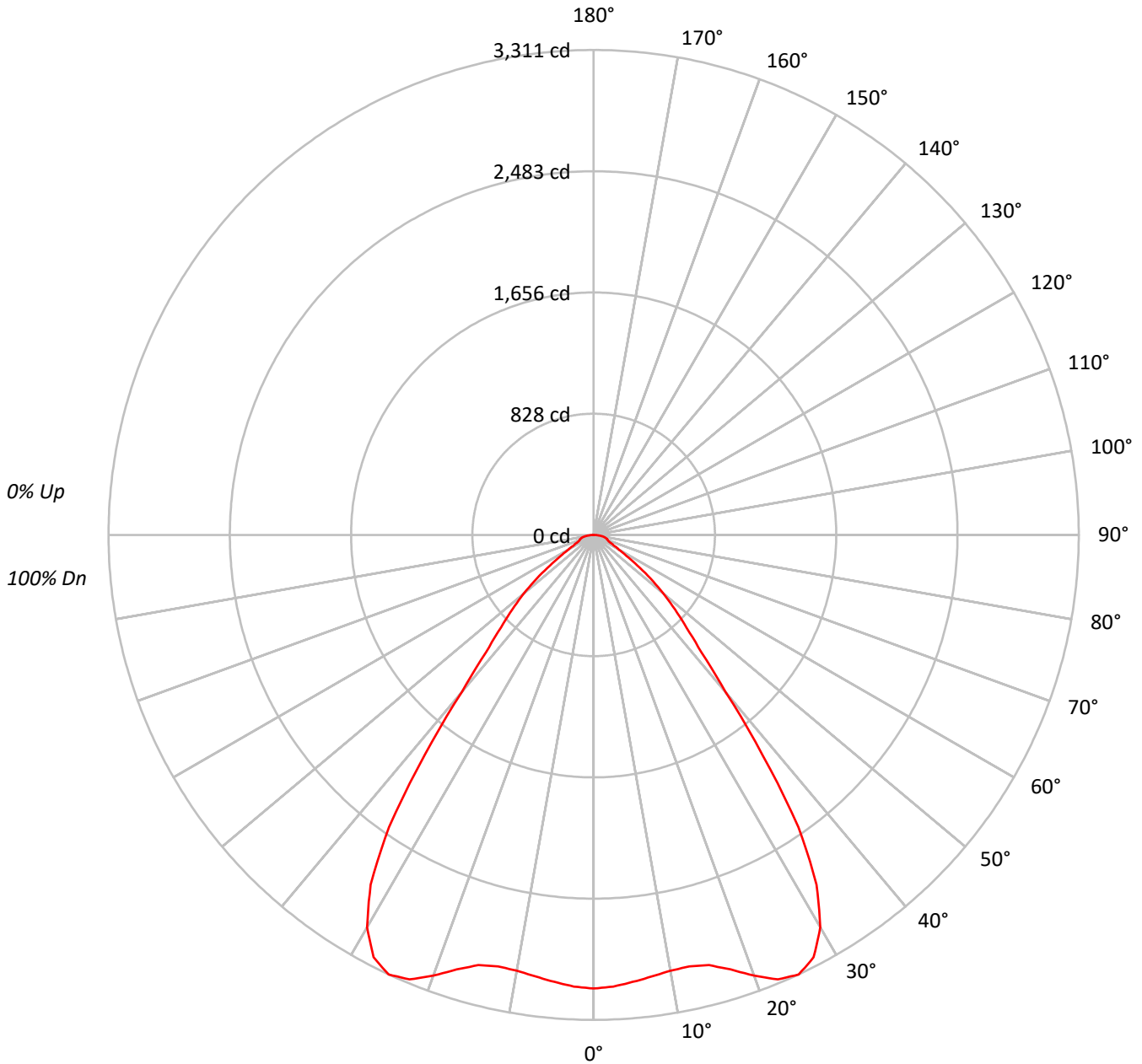
Lumens per Lamp: N/A
Luminaire Lumens: 5436.7 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): 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: P593738
CATALOG NUMBER: HCC8W40D010SL-HM82555950-81WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P593738
 CATALOG NUMBER: HCC8W40D010SL-HM82555950-81WDWB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20								
RC	80									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	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	100	100	100	100	100	100	100	100	100																
	1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90	90	90	90	90	90	90	90	90	90	90																
	2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81	81	81	81	81	81	81	81	81	81	81																
	3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73	73	73	73	73	73	73	73	73	73	73																
	4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65	65	65	65	65	65	65	65	65	65	65																
	5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59	59	59	59	59	59	59	59	59	59	59																
	6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54	54	54	54	54	54	54	54	54	54	54																
	7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49	49	49	49	49	49	49	49	49	49	49																
	8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45	45	45	45	45	45	45	45	45	45	45																
	9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41	41	41	41	41	41	41	41	41	41	41																
	10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38	38	38	38	38	38	38	38	38	38	38																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	95482
5°	94825
10°	94578
15°	97059
20°	105078
25°	112650
30°	110132
35°	91709
40°	56343
45°	39013
50°	29772
55°	19521
60°	12211
65°	9150
70°	9223
75°	10616
80°	11720
85°	10543



TEST NUMBER: P593738
 CATALOG NUMBER: HCC8W40D010SL-HM82555950-81WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.1	5.4
10°-20°	872.8	16.1
20°-30°	1502.5	27.6
30°-40°	1455.6	26.8
40°-50°	717.0	13.2
50°-60°	338.3	6.2
60°-70°	133.3	2.5
70°-80°	92.0	1.7
80°-90°	34.1	0.6
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°	2666.3	49.0
0°-40°	4121.9	75.8
0°-60°	5177.3	95.2
0°-90°	5436.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5436.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3096	
5°	3063	291
15°	3040	873
25°	3311	1502
35°	2436	1456
45°	895	717
55°	363	338
65°	125	133
75°	89	92
85°	30	34
90°	0	



TEST NUMBER: P593738
CATALOG NUMBER: HCC8W40D010SL-HM82555950-81WDWB

CANDELA DISTRIBUTION (FULL):

0°	
0°	3096.4
2.5°	3086.5
5°	3063.4
7.5°	3040.3
10°	3020.5
12.5°	3017.1
15°	3040.3
17.5°	3109.6
20°	3202.1
22.5°	3284.5
25°	3310.9
27.5°	3251.6
30°	3093.0
32.5°	2832.3
35°	2436.2
37.5°	1891.5
40°	1399.7
42.5°	1086.0
45°	894.6
47.5°	752.7
50°	620.6
52.5°	488.6
55°	363.1
57.5°	264.1
60°	198.0
62.5°	155.2
65°	125.4
67.5°	108.9
70°	102.3
72.5°	95.7
75°	89.1
77.5°	79.3
80°	66.0
82.5°	49.5
85°	29.8
87.5°	13.2
90°	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°

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)