

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: P584083

Luminaire Tested: **HCC8S20D010MB-HM80520940-81MDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S20D010MB-HM80520940-81MDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

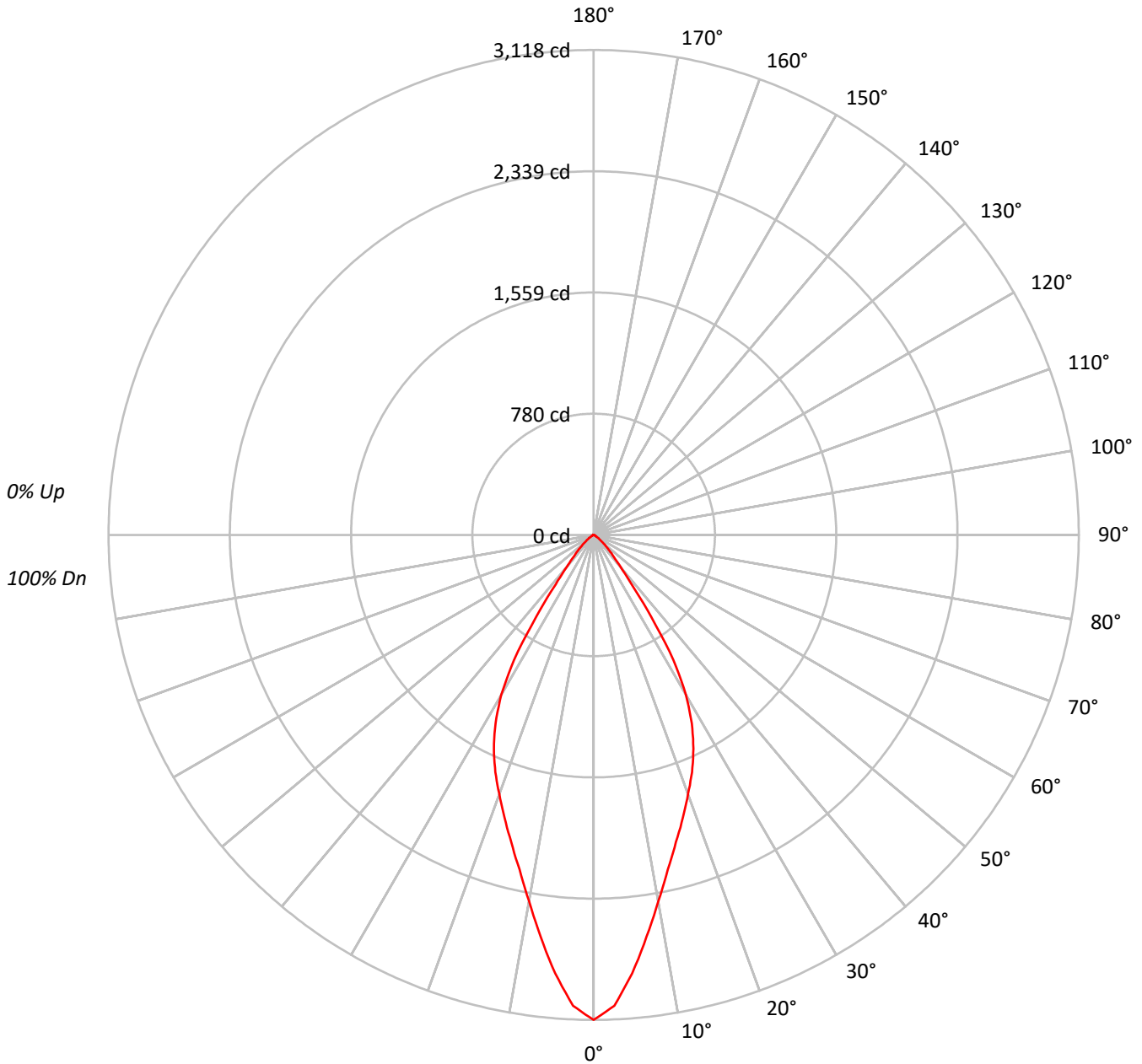
Lumens per Lamp: N/A
Luminaire Lumens: 2102.3 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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: P584083
CATALOG NUMBER: HCC8S20D010MB-HM80520940-81MDH

Luminous Intensity Polar Plot





TEST NUMBER: P584083

CATALOG NUMBER: HCC8S20D010MB-HM80520940-81MDH

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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	91	89	87			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81			
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76			
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71			
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66			
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58			
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	63	59	56	55			
10	73	63	57	54	72	63	57	53	62	57	53	61	56	53	60	56	53	52			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	96151
5°	87622
10°	74861
15°	65285
20°	58188
25°	51618
30°	42258
35°	24269
40°	10772
45°	6267
50°	3617
55°	2064
60°	1147
65°	722
70°	514
75°	334
80°	249
85°	495



TEST NUMBER: P584083
 CATALOG NUMBER: HCC8S20D010MB-HM80520940-81MDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.2	12.2
10°-20°	574.8	27.3
20°-30°	688.1	32.7
30°-40°	416.3	19.8
40°-50°	116.6	5.5
50°-60°	36.2	1.7
60°-70°	10.3	0.5
70°-80°	2.8	0.1
80°-90°	1.0	0.0
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°	1519.2	72.3
0°-40°	1935.4	92.1
0°-60°	2088.3	99.3
0°-90°	2102.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2102.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3118	
5°	2831	256
15°	2045	575
25°	1517	688
35°	645	416
45°	144	117
55°	38	36
65°	10	10
75°	3	3
85°	1	1
90°	0	



TEST NUMBER: P584083
CATALOG NUMBER: HCC8S20D010MB-HM80520940-81MDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	3118.1
2.5°	3029.8
5°	2830.7
7.5°	2605.7
10°	2390.8
12.5°	2203.0
15°	2045.0
17.5°	1905.6
20°	1773.2
22.5°	1650.8
25°	1517.1
27.5°	1366.2
30°	1186.8
32.5°	954.9
35°	644.7
37.5°	401.3
40°	267.6
42.5°	192.1
45°	143.7
47.5°	105.3
50°	75.4
52.5°	52.6
55°	38.4
57.5°	25.6
60°	18.6
62.5°	12.8
65°	9.9
67.5°	7.1
70°	5.7
72.5°	2.8
75°	2.8
77.5°	1.4
80°	1.4
82.5°	1.4
85°	1.4
87.5°	0.0
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)