

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: P584094

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S20D010MB-HM80520940-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

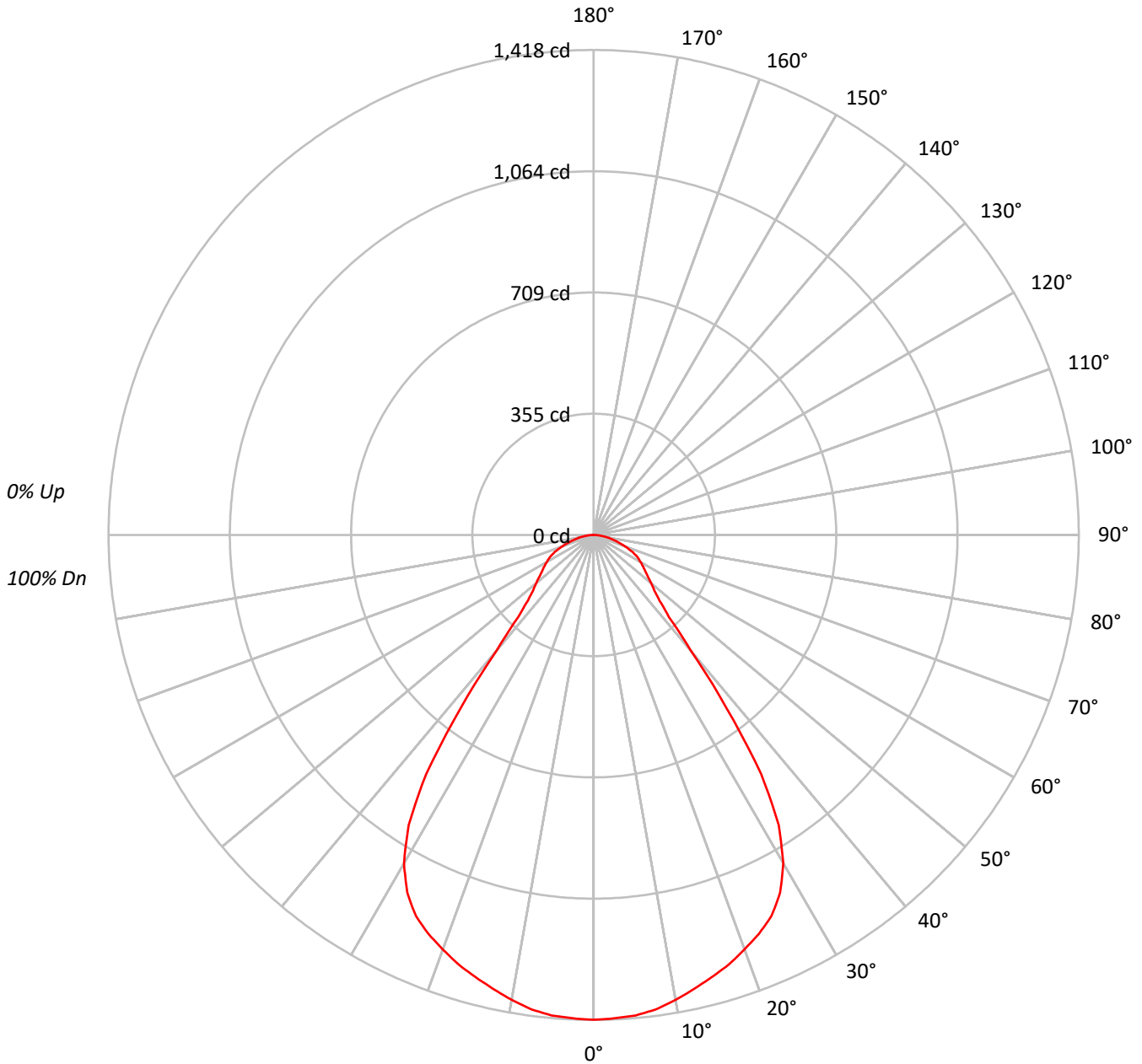
Lumens per Lamp: N/A
Luminaire Lumens: 2186.4 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584094
CATALOG NUMBER: HCC8S20D010MB-HM80520940-81WDW

Luminous Intensity Polar Plot





TEST NUMBER: P584094

CATALOG NUMBER: HCC8S20D010MB-HM80520940-81WDW

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			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	43714
5°	43658
10°	43229
15°	42708
20°	42312
25°	41836
30°	39477
35°	32144
40°	17760
45°	11857
50°	10511
55°	9871
60°	9744
65°	9661
70°	8727
75°	7804
80°	6819
85°	6015



TEST NUMBER: P584094
 CATALOG NUMBER: HCC8S20D010MB-HM80520940-81WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.7	6.1
10°-20°	377.7	17.3
20°-30°	561.3	25.7
30°-40°	505.5	23.1
40°-50°	224.1	10.2
50°-60°	166.0	7.6
60°-70°	129.0	5.9
70°-80°	70.0	3.2
80°-90°	19.2	0.9
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°	1072.7	49.1
0°-40°	1578.2	72.2
0°-60°	1968.2	90.0
0°-90°	2186.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2186.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1418	
5°	1410	134
15°	1338	378
25°	1230	561
35°	854	505
45°	272	224
55°	184	166
65°	132	129
75°	66	70
85°	17	19
90°	0	



TEST NUMBER: P584094
CATALOG NUMBER: HCC8S20D010MB-HM80520940-81WDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1417.6
2.5°	1414.7
5°	1410.4
7.5°	1399.0
10°	1380.6
12.5°	1359.2
15°	1337.8
17.5°	1316.5
20°	1289.4
22.5°	1262.4
25°	1229.6
27.5°	1179.9
30°	1108.7
32.5°	1006.2
35°	853.9
37.5°	637.6
40°	441.2
42.5°	325.9
45°	271.9
47.5°	240.5
50°	219.1
52.5°	199.3
55°	183.6
57.5°	170.8
60°	158.0
62.5°	146.6
65°	132.4
67.5°	115.2
70°	96.8
72.5°	81.1
75°	65.5
77.5°	51.2
80°	38.4
82.5°	27.1
85°	17.0
87.5°	7.1
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)