

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: P584077

Luminaire Tested: **HCC8S20D010MB-HM80520935-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584077
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-HM80520935-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

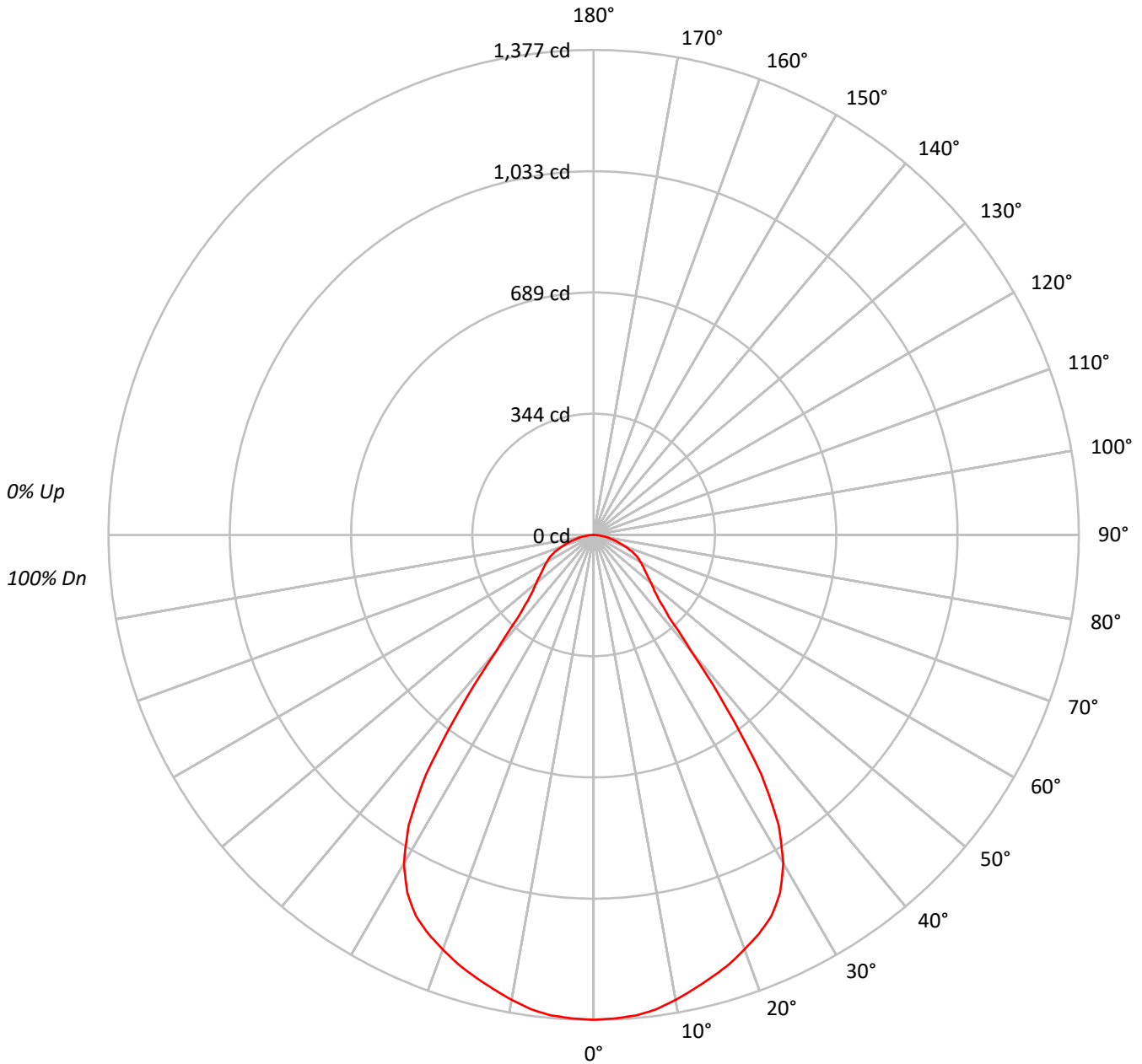
Lumens per Lamp: N/A
Luminaire Lumens: 2123.3 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584077
CATALOG NUMBER: HCC8S20D010MB-HM80520935-81WDW

Luminous Intensity Polar Plot





TEST NUMBER: P584077

CATALOG NUMBER: HCC8S20D010MB-HM80520935-81WDW

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°	42452
5°	42398
10°	41980
15°	41479
20°	41091
25°	40632
30°	38338
35°	31218
40°	17249
45°	11508
50°	10213
55°	9580
60°	9461
65°	9383
70°	8475
75°	7577
80°	6641
85°	5838



TEST NUMBER: P584077
 CATALOG NUMBER: HCC8S20D010MB-HM80520935-81WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.8	6.1
10°-20°	366.9	17.3
20°-30°	545.1	25.7
30°-40°	490.9	23.1
40°-50°	217.6	10.2
50°-60°	161.1	7.6
60°-70°	125.3	5.9
70°-80°	68.0	3.2
80°-90°	18.6	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°	1041.8	49.1
0°-40°	1532.7	72.2
0°-60°	1911.4	90.0
0°-90°	2123.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2123.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1377	
5°	1370	130
15°	1299	367
25°	1194	545
35°	829	491
45°	264	218
55°	178	161
65°	129	125
75°	64	68
85°	16	19
90°	0	



TEST NUMBER: P584077
CATALOG NUMBER: HCC8S20D010MB-HM80520935-81WDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1376.7
2.5°	1374.0
5°	1369.7
7.5°	1358.7
10°	1340.7
12.5°	1319.9
15°	1299.3
17.5°	1278.6
20°	1252.2
22.5°	1226.0
25°	1194.2
27.5°	1145.8
30°	1076.7
32.5°	977.2
35°	829.3
37.5°	619.2
40°	428.5
42.5°	316.5
45°	263.9
47.5°	233.6
50°	212.9
52.5°	193.5
55°	178.2
57.5°	165.8
60°	153.4
62.5°	142.3
65°	128.6
67.5°	111.9
70°	94.0
72.5°	78.8
75°	63.6
77.5°	49.8
80°	37.4
82.5°	26.2
85°	16.5
87.5°	6.9
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)