

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: P583824

Luminaire Tested: **HCC8S10D010MB-HM80520940-81WDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S10D010MB-HM80520940-81WDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

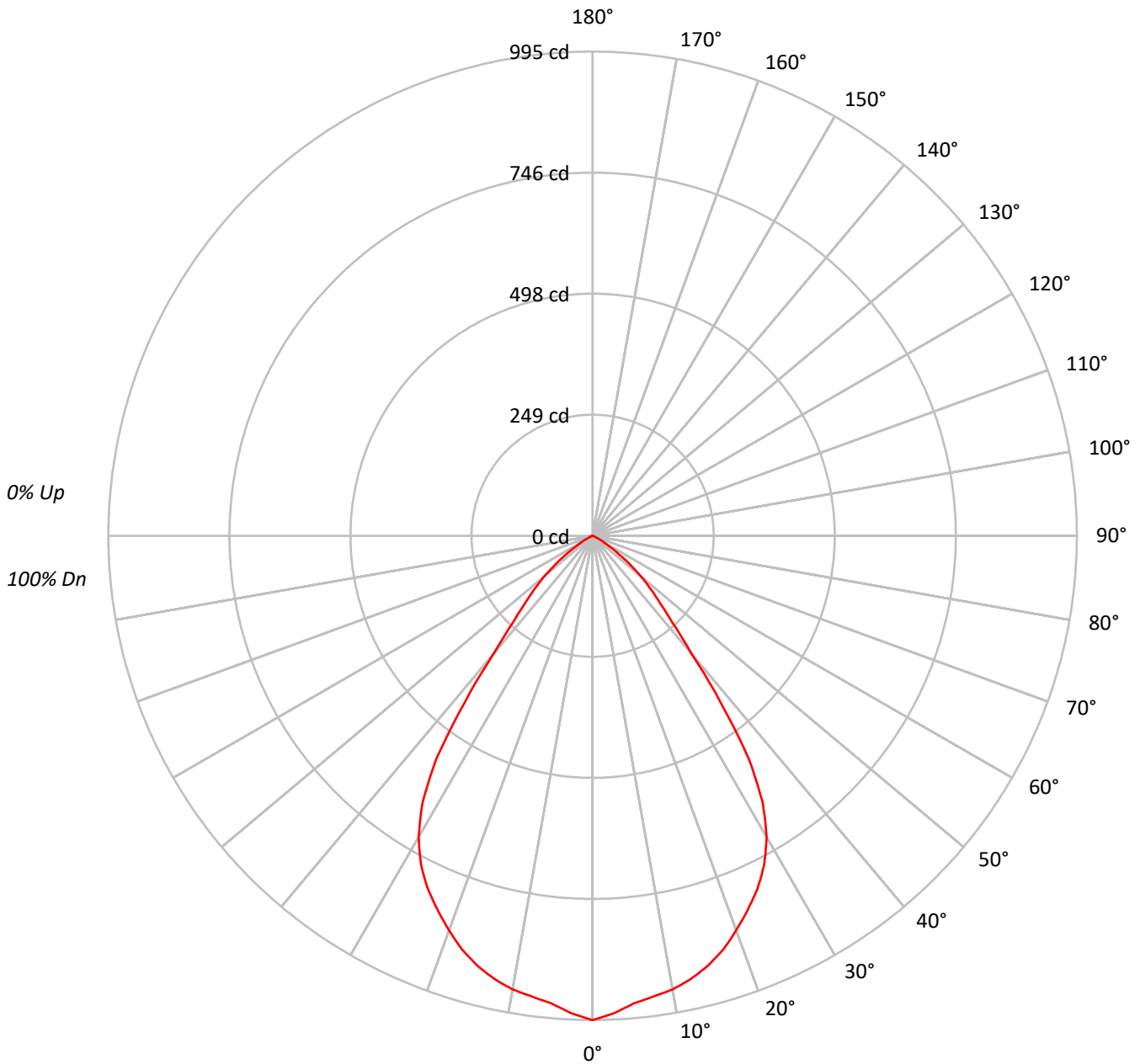
Lumens per Lamp: N/A
Luminaire Lumens: 1279.2 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									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	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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92											92																	
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84											84																	
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	77											77																	
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	71	70											70																	
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64											64																	
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59											59																	
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	63	59	55	54											54																	
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50											50																	
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46											46																	
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43											43																	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	30691
5°	29865
10°	29640
15°	29198
20°	28313
25°	27257
30°	25462
35°	21073
40°	12720
45°	8569
50°	6174
55°	3521
60°	1548
65°	555
70°	207
75°	83
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.7	7.2
10°-20°	257.0	20.1
20°-30°	366.7	28.7
30°-40°	333.9	26.1
40°-50°	157.5	12.3
50°-60°	62.0	4.8
60°-70°	9.9	0.8
70°-80°	0.7	0.1
80°-90°	0.0	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°	715.4	55.9
0°-40°	1049.3	82.0
0°-60°	1268.7	99.2
0°-90°	1279.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1279.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	995	
5°	965	92
15°	915	257
25°	801	367
35°	560	334
45°	196	157
55°	66	62
65°	8	10
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	995.3
2.5°	982.4
5°	964.8
7.5°	955.0
10°	946.6
12.5°	932.9
15°	914.6
17.5°	891.8
20°	862.8
22.5°	832.4
25°	801.1
27.5°	763.0
30°	715.1
32.5°	650.3
35°	559.8
37.5°	432.6
40°	316.0
42.5°	242.9
45°	196.5
47.5°	161.4
50°	128.7
52.5°	96.8
55°	65.5
57.5°	41.1
60°	25.1
62.5°	15.3
65°	7.6
67.5°	3.8
70°	2.3
72.5°	0.7
75°	0.7
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)