

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: P593760

Luminaire Tested: **HCC8S45D010MW-HM82555850-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S45D010MW-HM82555850-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

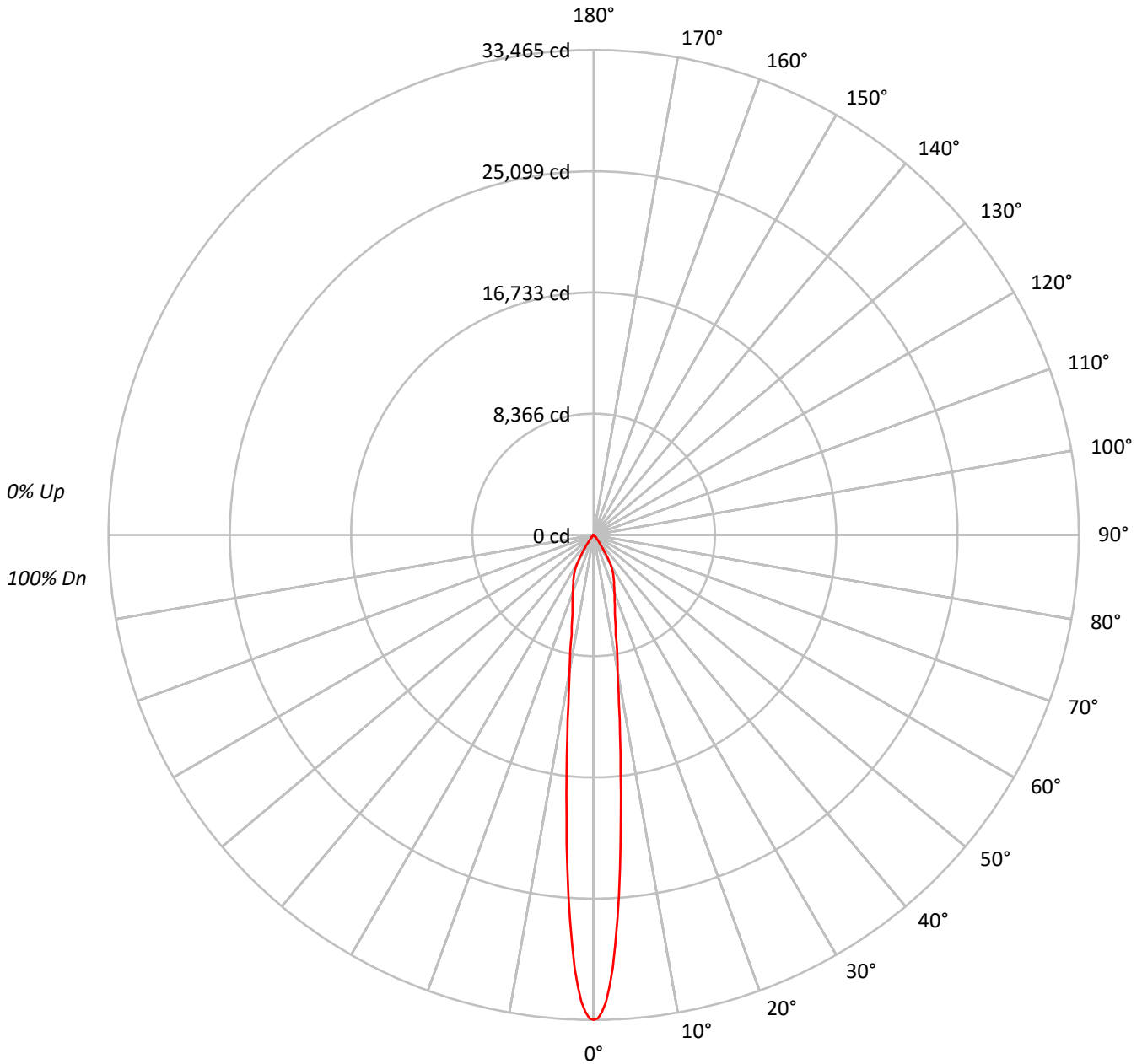
Lumens per Lamp: N/A
Luminaire Lumens: 5482.4 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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																		
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																												
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80												
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73										
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70											
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66											
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64												
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60												
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57												
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54												
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51												
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1031943
5°	661913
10°	299011
15°	180416
20°	137483
25°	111024
30°	81358
35°	29457
40°	10997
45°	4993
50°	1593
55°	398
60°	222
65°	263
70°	0
75°	0
80°	639
85°	1274



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1630.9	29.7
10°-20°	1656.5	30.2
20°-30°	1482.9	27.0
30°-40°	597.3	10.9
40°-50°	98.0	1.8
50°-60°	8.9	0.2
60°-70°	3.1	0.1
70°-80°	2.4	0.0
80°-90°	3.4	0.1
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°	4770.3	87.0
0°-40°	5367.6	97.9
0°-60°	5474.4	99.9
0°-90°	5483.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5482.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	33465	
5°	21384	###
15°	5651	1657
25°	3263	1483
35°	782	597
45°	114	98
55°	7	9
65°	4	3
75°	0	2
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	33465.2
0.5°	33361.9
1°	32930.0
1.5°	32236.0
2°	31184.0
2.5°	29940.0
3°	28382.3
3.5°	26673.2
4°	24982.7
4.5°	23089.0
5°	21383.7
5.5°	19526.9
6°	18020.9
6.5°	16452.0
7°	15219.2
7.5°	13916.1
8°	12867.8
8.5°	11815.9
9°	11025.8
9.5°	10154.8
10°	9549.4
12.5°	7042.9
15°	5651.4
17.5°	4828.2
20°	4189.6
22.5°	3680.2
25°	3263.1
27.5°	2845.9
30°	2284.9
32.5°	1469.2
35°	782.5
37.5°	431.9
40°	273.2
42.5°	180.9
45°	114.5
47.5°	70.1
50°	33.2
52.5°	11.0
55°	7.4
57.5°	3.6
60°	3.6
62.5°	3.6
65°	3.6



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	3.6
80°	3.6
82.5°	3.6
85°	3.6
87.5°	3.6
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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Scaled Data Report



67.5°		3.6
70°		0.0

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(END OF REPORT)