

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: P585274

Luminaire Tested: **HCC8S80D010MW-HM86080930-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S80D010MW-HM86080930-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

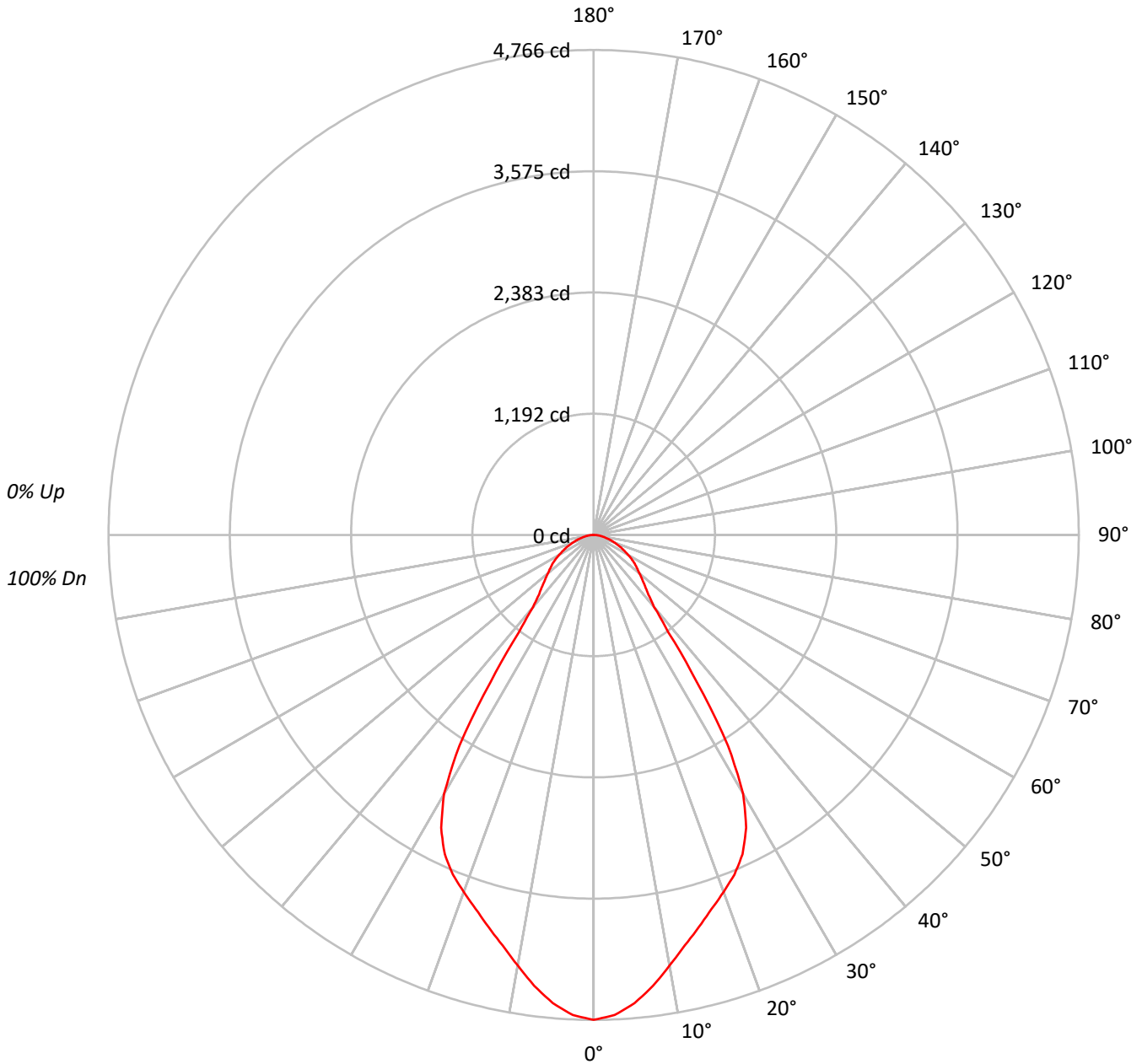
Lumens per Lamp: N/A
Luminaire Lumens: 5747.1 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): 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	
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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90				
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80				
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72				
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65				
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59				
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54				
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50				
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46				
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43				
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	146950
5°	142949
10°	134516
15°	127361
20°	122506
25°	117781
30°	104605
35°	66615
40°	37179
45°	31141
50°	28107
55°	26494
60°	24176
65°	21802
70°	19240
75°	17109
80°	15165
85°	13728



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.5	7.5
10°-20°	1125.1	19.6
20°-30°	1569.6	27.3
30°-40°	1129.4	19.7
40°-50°	559.7	9.7
50°-60°	437.9	7.6
60°-70°	296.5	5.2
70°-80°	154.0	2.7
80°-90°	44.3	0.8
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°	3125.2	54.4
0°-40°	4254.7	74.0
0°-60°	5252.3	91.4
0°-90°	5747.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5747.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4766	
5°	4618	431
15°	3990	1125
25°	3462	1570
35°	1770	1129
45°	714	560
55°	493	438
65°	299	296
75°	144	154
85°	39	44
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4765.5
2.5°	4722.8
5°	4618.1
7.5°	4470.6
10°	4296.0
12.5°	4133.0
15°	3989.5
17.5°	3853.5
20°	3733.2
22.5°	3613.0
25°	3461.7
27.5°	3244.3
30°	2937.8
32.5°	2456.5
35°	1769.6
37.5°	1207.0
40°	923.6
42.5°	795.6
45°	714.1
47.5°	644.2
50°	585.9
52.5°	535.5
55°	492.8
57.5°	442.4
60°	392.0
62.5°	341.5
65°	298.8
67.5°	256.1
70°	213.4
72.5°	178.5
75°	143.6
77.5°	112.6
80°	85.4
82.5°	62.1
85°	38.8
87.5°	19.4
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)