

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: P585226

Luminaire Tested: **HCC8S80D010SL-HM86080835-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S80D010SL-HM86080835-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

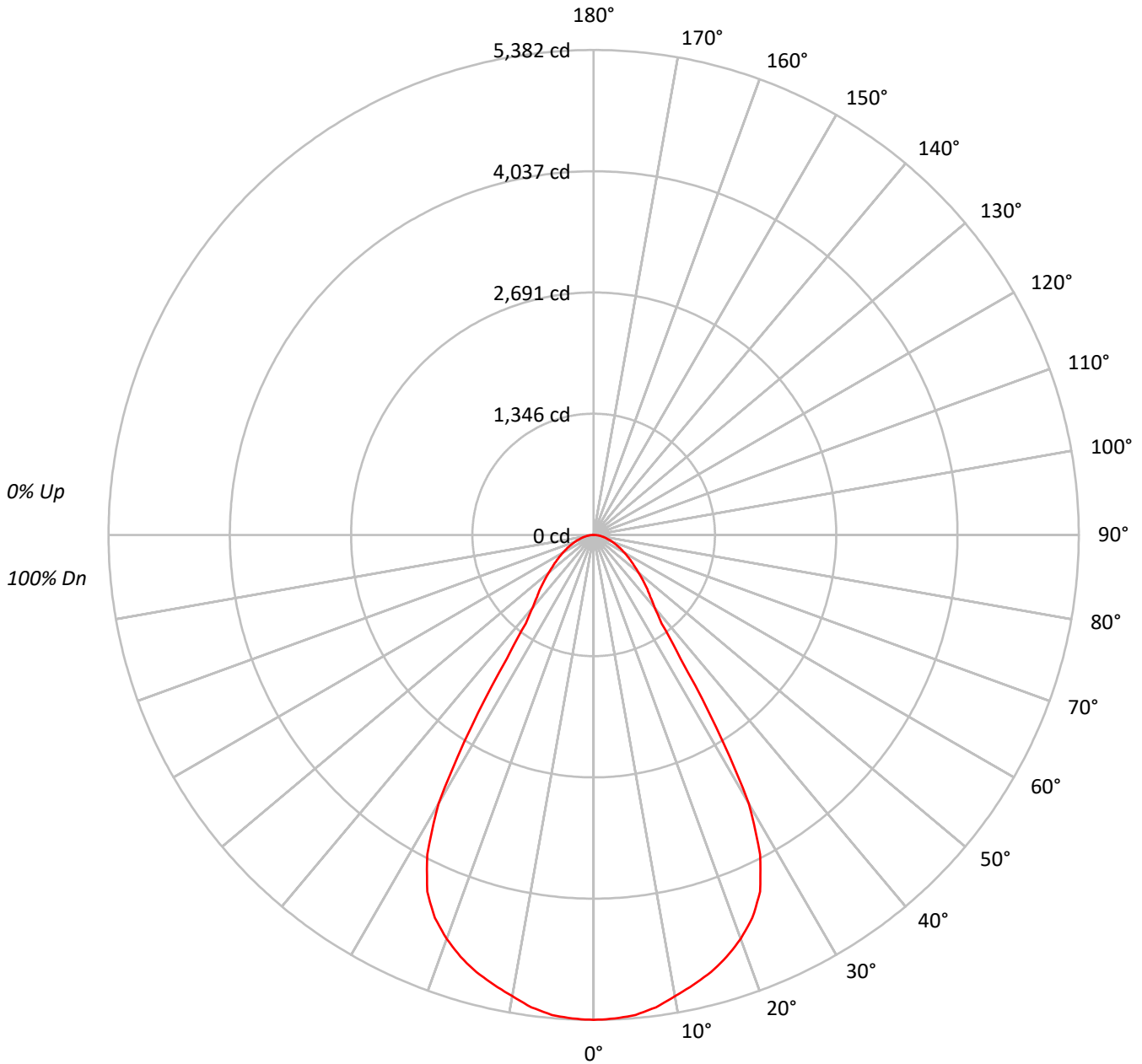
Lumens per Lamp: N/A
Luminaire Lumens: 6658.5 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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
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	101	102	100	98	98	96	95	95	93	92	90		
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81		
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56		
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52		
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48		
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45		
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	165964
5°	165521
10°	162763
15°	160387
20°	156539
25°	148597
30°	122565
35°	63107
40°	42247
45°	36230
50°	31259
55°	27273
60°	24237
65°	21773
70°	19736
75°	17776
80°	15893
85°	15851



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.6	7.6
10°-20°	1413.5	21.2
20°-30°	1958.5	29.4
30°-40°	1176.4	17.7
40°-50°	644.0	9.7
50°-60°	457.5	6.9
60°-70°	297.0	4.5
70°-80°	158.7	2.4
80°-90°	47.4	0.7
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°	3877.6	58.2
0°-40°	5053.9	75.9
0°-60°	6155.4	92.4
0°-90°	6658.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6658.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5382	
5°	5347	506
15°	5024	1413
25°	4367	1958
35°	1676	1176
45°	831	644
55°	507	457
65°	298	297
75°	149	159
85°	45	47
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5382.1
2.5°	5372.3
5°	5347.3
7.5°	5287.6
10°	5198.1
12.5°	5113.5
15°	5024.0
17.5°	4909.6
20°	4770.3
22.5°	4601.2
25°	4367.4
27.5°	3999.3
30°	3442.2
32.5°	2522.0
35°	1676.4
37.5°	1238.6
40°	1049.5
42.5°	930.2
45°	830.8
47.5°	736.2
50°	651.6
52.5°	572.0
55°	507.3
57.5°	447.7
60°	393.0
62.5°	343.3
65°	298.4
67.5°	253.7
70°	218.9
72.5°	179.1
75°	149.2
77.5°	119.4
80°	89.5
82.5°	64.7
85°	44.8
87.5°	19.9
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)