

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: P584478

Luminaire Tested: **HCC8S35D010SL-HM82555935-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584478
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: HCC8S35D010SL-HM82555935-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

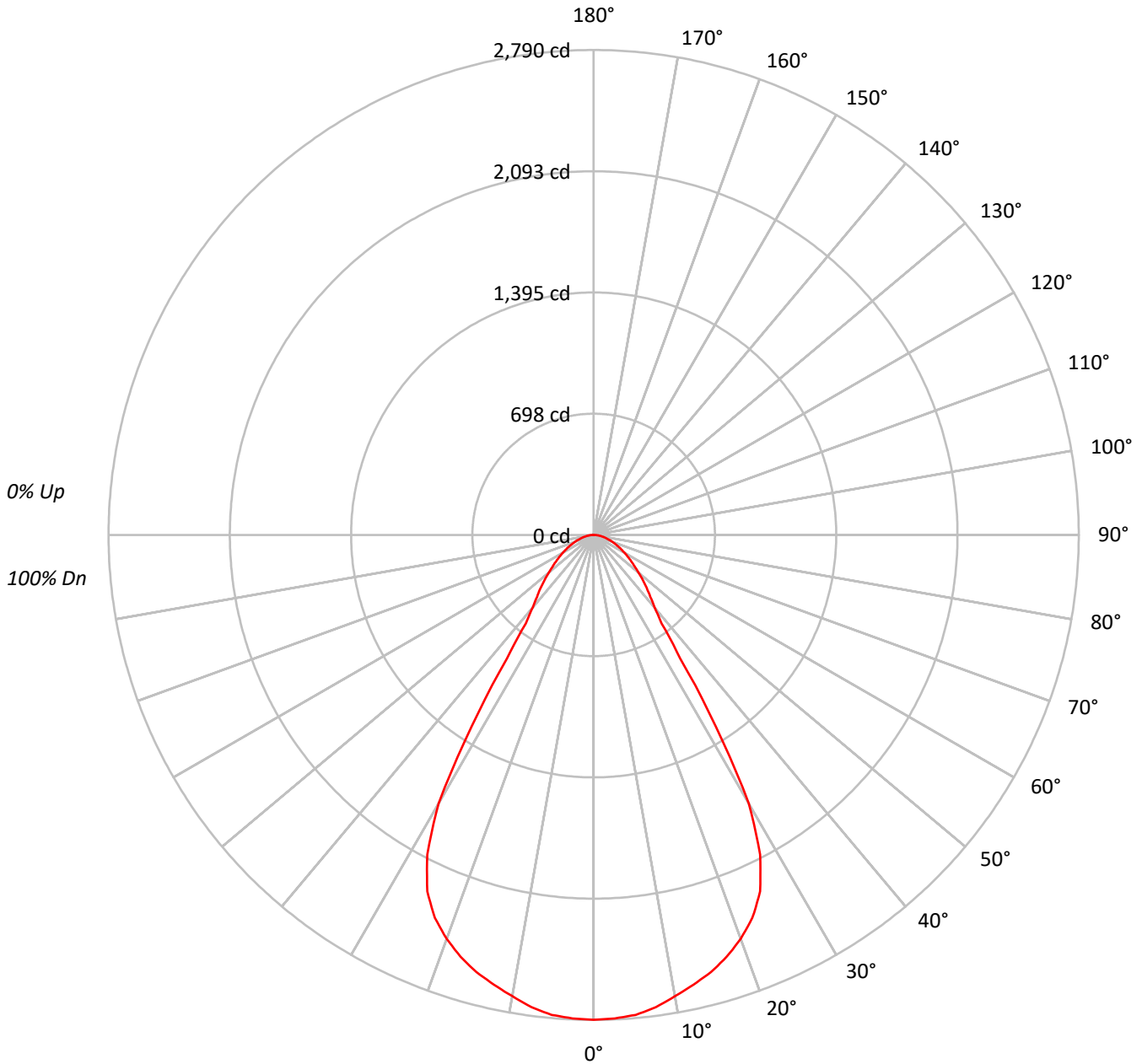
Lumens per Lamp: N/A
Luminaire Lumens: 3451.3 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 33.7
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	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°	86024
5°	85795
10°	84364
15°	83134
20°	81139
25°	77020
30°	63529
35°	32709
40°	21898
45°	18778
50°	16200
55°	14139
60°	12563
65°	11288
70°	10233
75°	9222
80°	8240
85°	8208



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.1	7.6
10°-20°	732.7	21.2
20°-30°	1015.1	29.4
30°-40°	609.7	17.7
40°-50°	333.8	9.7
50°-60°	237.1	6.9
60°-70°	153.9	4.5
70°-80°	82.3	2.4
80°-90°	24.5	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°	2009.8	58.2
0°-40°	2619.6	75.9
0°-60°	3190.5	92.4
0°-90°	3451.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3451.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2790	
5°	2772	262
15°	2604	733
25°	2264	1015
35°	869	610
45°	431	334
55°	263	237
65°	155	154
75°	77	82
85°	23	25
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2789.7
2.5°	2784.5
5°	2771.7
7.5°	2740.7
10°	2694.3
12.5°	2650.5
15°	2604.1
17.5°	2544.8
20°	2472.6
22.5°	2385.0
25°	2263.7
27.5°	2072.9
30°	1784.2
32.5°	1307.1
35°	868.9
37.5°	642.0
40°	544.0
42.5°	482.2
45°	430.6
47.5°	381.6
50°	337.7
52.5°	296.5
55°	263.0
57.5°	232.1
60°	203.7
62.5°	177.9
65°	154.7
67.5°	131.5
70°	113.5
72.5°	92.8
75°	77.4
77.5°	61.9
80°	46.4
82.5°	33.5
85°	23.2
87.5°	10.3
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)