

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: P580516

Luminaire Tested: **HCC4W35D010MB-HM43040935-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W35D010MB-HM43040935-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

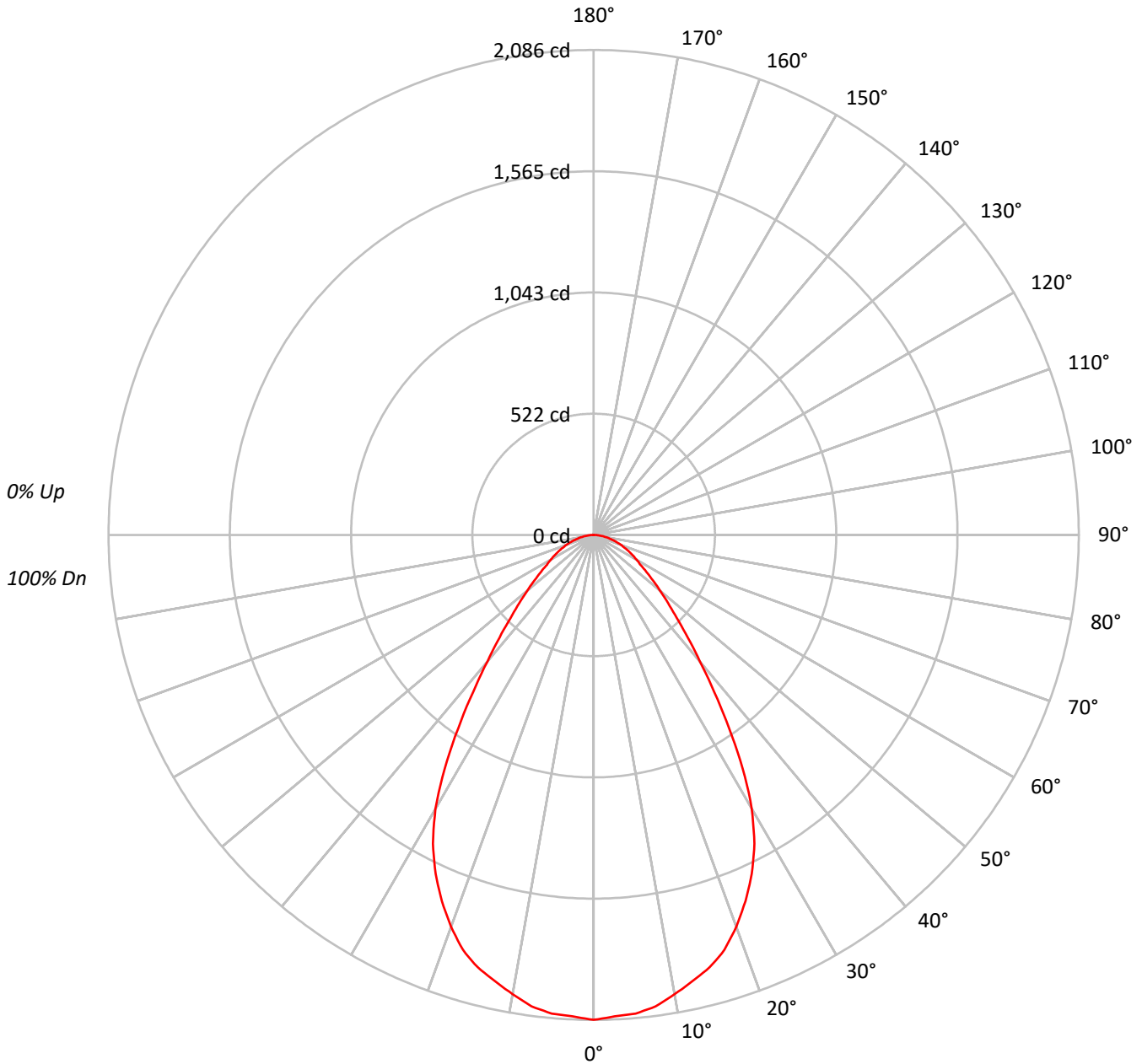
Lumens per Lamp: N/A
Luminaire Lumens: 3034.3 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 33.7
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	
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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89				
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79				
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70				
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63				
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57				
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52				
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47				
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44				
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40				
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	257250
5°	255880
10°	251211
15°	245906
20°	235392
25°	218885
30°	193744
35°	152896
40°	114418
45°	88021
50°	71422
55°	59224
60°	52373
65°	48478
70°	44755
75°	41080
80°	37363
85°	29720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.4	6.4
10°-20°	540.1	17.8
20°-30°	733.3	24.2
30°-40°	635.2	20.9
40°-50°	398.8	13.1
50°-60°	250.9	8.3
60°-70°	164.8	5.4
70°-80°	91.0	3.0
80°-90°	24.9	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°	1468.7	48.4
0°-40°	2103.9	69.3
0°-60°	2753.7	90.8
0°-90°	3034.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3034.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2086	
5°	2067	195
15°	1926	540
25°	1608	733
35°	1015	635
45°	505	399
55°	275	251
65°	166	165
75°	86	91
85°	21	25
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2085.6
2.5°	2072.9
5°	2066.6
7.5°	2045.6
10°	2005.7
12.5°	1965.7
15°	1925.7
17.5°	1871.1
20°	1793.3
22.5°	1705.0
25°	1608.3
27.5°	1496.8
30°	1360.3
32.5°	1194.1
35°	1015.4
37.5°	851.4
40°	710.6
42.5°	599.2
45°	504.6
47.5°	433.1
50°	372.2
52.5°	319.6
55°	275.4
57.5°	237.6
60°	212.3
62.5°	189.2
65°	166.1
67.5°	143.0
70°	124.1
72.5°	103.1
75°	86.2
77.5°	67.3
80°	52.6
82.5°	35.7
85°	21.0
87.5°	8.4
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)