

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: P580050

Luminaire Tested: **HCC4S20D010SL-HM40525927-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S20D010SL-HM40525927-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

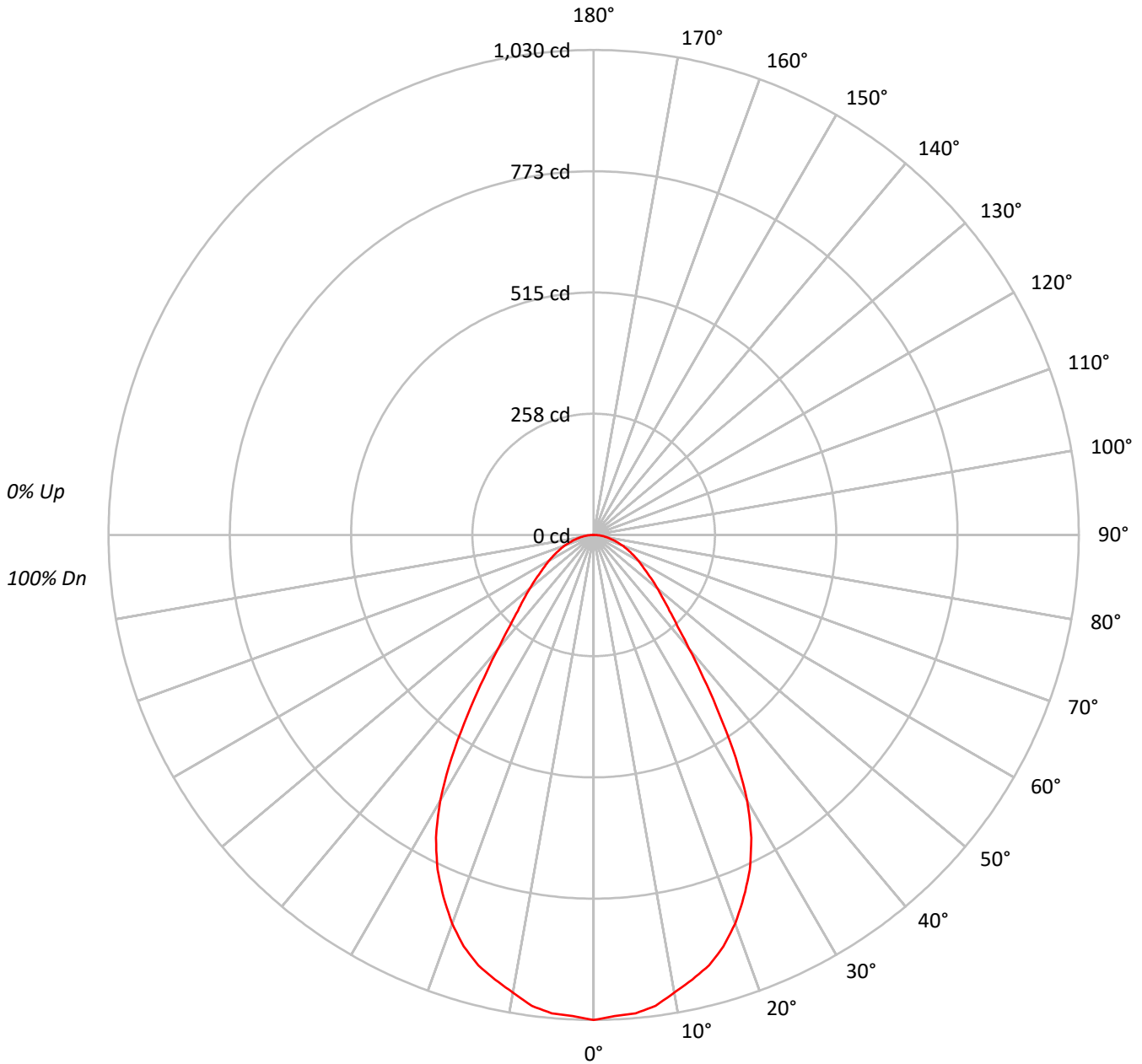
Lumens per Lamp: N/A
Luminaire Lumens: 1463.1 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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				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				100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89				89
2	103	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78				78
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70				70
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63				63
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57				57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52				52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47				47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44				44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40				40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	127071
5°	126281
10°	123608
15°	120865
20°	115287
25°	106714
30°	92820
35°	70094
40°	50801
45°	39702
50°	33946
55°	29354
60°	27062
65°	24779
70°	23117
75°	21207
80°	19818
85°	18964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.3	6.6
10°-20°	265.1	18.1
20°-30°	356.5	24.4
30°-40°	293.2	20.0
40°-50°	180.0	12.3
50°-60°	124.6	8.5
60°-70°	85.0	5.8
70°-80°	47.3	3.2
80°-90°	15.0	1.0
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°	718.0	49.1
0°-40°	1011.1	69.1
0°-60°	1315.8	89.9
0°-90°	1463.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1463.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1030	
5°	1020	96
15°	946	265
25°	784	357
35°	466	293
45°	228	180
55°	136	125
65°	85	85
75°	44	47
85°	13	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1030.2
2.5°	1023.0
5°	1019.9
7.5°	1008.6
10°	986.9
12.5°	967.2
15°	946.5
17.5°	916.5
20°	878.3
22.5°	832.7
25°	784.1
27.5°	725.1
30°	651.7
32.5°	561.7
35°	465.5
37.5°	382.8
40°	315.5
42.5°	263.8
45°	227.6
47.5°	199.7
50°	176.9
52.5°	156.2
55°	136.5
57.5°	122.0
60°	109.7
62.5°	97.3
65°	84.9
67.5°	74.4
70°	64.1
72.5°	53.8
75°	44.5
77.5°	35.2
80°	27.9
82.5°	20.6
85°	13.4
87.5°	7.2
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)