

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: P579981

Luminaire Tested: **HC420D010-HM40525827-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579981
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: HC420D010-HM40525827-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1746.3 lumens
Efficiency: N/A
Efficacy: 87.3 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

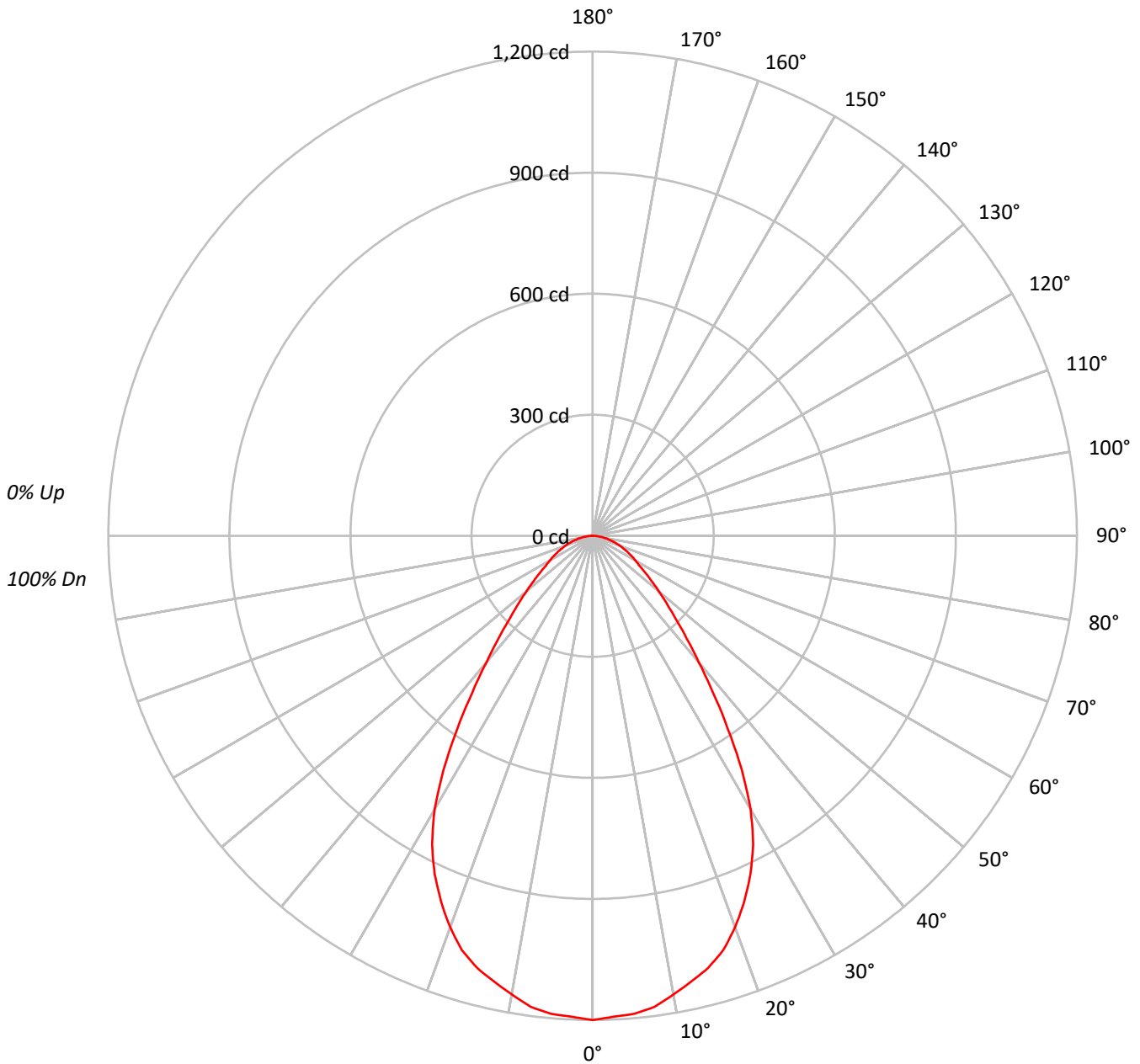
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	148052
5°	147268
10°	144574
15°	141526
20°	135488
25°	125971
30°	111492
35°	87997
40°	65856
45°	50657
50°	41084
55°	34085
60°	30146
65°	27873
70°	25714
75°	23686
80°	21523
85°	16983



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	6.4
10°-20°	310.8	17.8
20°-30°	422.0	24.2
30°-40°	365.6	20.9
40°-50°	229.5	13.1
50°-60°	144.4	8.3
60°-70°	94.8	5.4
70°-80°	52.4	3.0
80°-90°	14.3	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°	845.3	48.4
0°-40°	1210.9	69.3
0°-60°	1584.8	90.8
0°-90°	1746.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1746.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1200	
5°	1189	112
15°	1108	311
25°	926	422
35°	584	366
45°	290	230
55°	158	144
65°	96	95
75°	50	52
85°	12	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1200.3
2.5°	1193.1
5°	1189.4
7.5°	1177.4
10°	1154.3
12.5°	1131.4
15°	1108.3
17.5°	1076.9
20°	1032.2
22.5°	981.4
25°	925.6
27.5°	861.5
30°	782.8
32.5°	687.3
35°	584.4
37.5°	490.1
40°	409.0
42.5°	344.9
45°	290.4
47.5°	249.2
50°	214.1
52.5°	184.0
55°	158.5
57.5°	136.7
60°	122.2
62.5°	108.9
65°	95.5
67.5°	82.2
70°	71.3
72.5°	59.3
75°	49.7
77.5°	38.8
80°	30.3
82.5°	20.5
85°	12.0
87.5°	4.8
90°	0.0



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— 0°-180°







(END OF REPORT)