

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: P584031

Luminaire Tested: **HC820D010-HM80520927-81MDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584031
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC820D010-HM80520927-81MDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1910.1 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.67
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

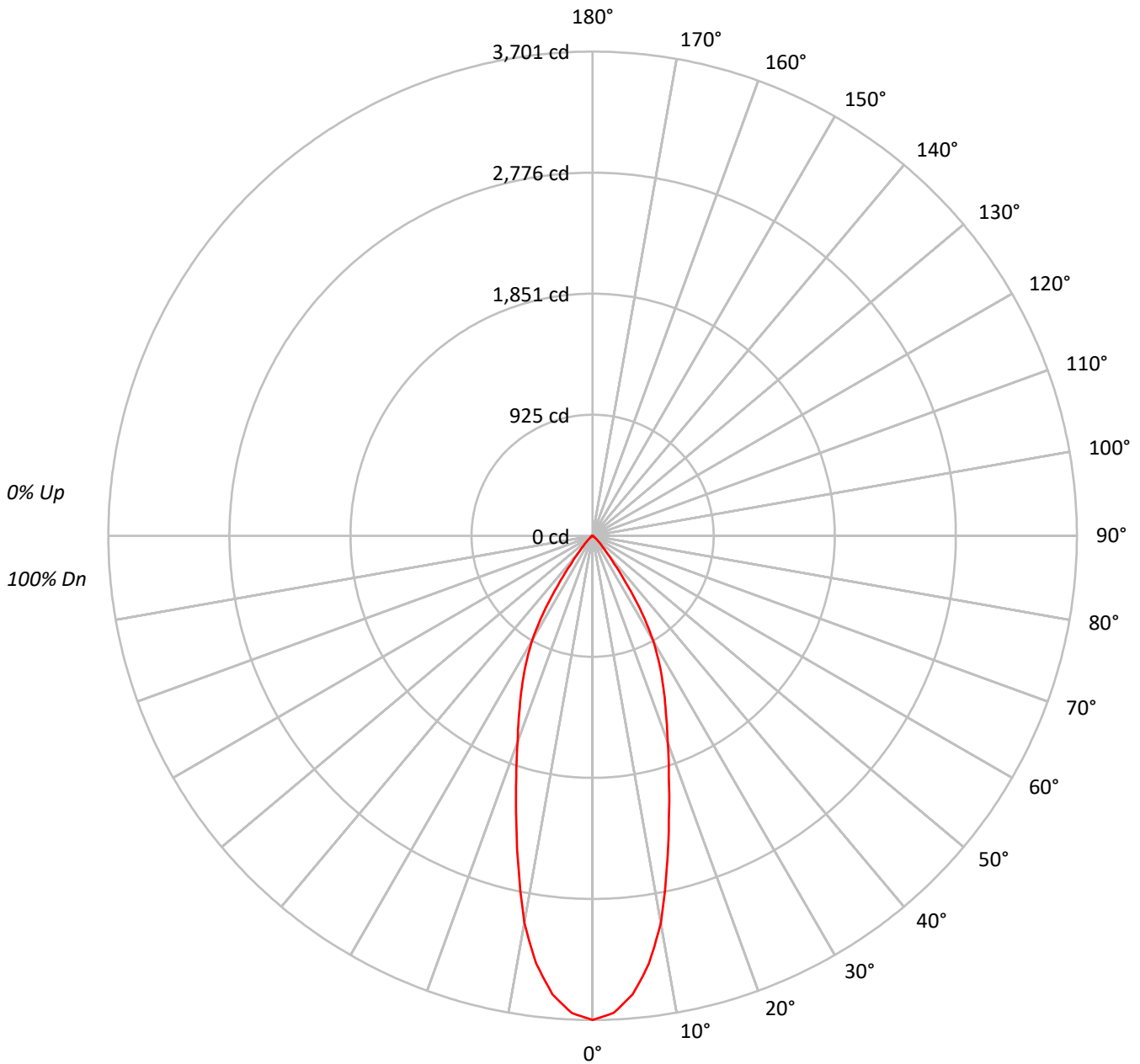
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95			95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89			89
3	104	98	94	90	102	97	93	90	94	91	88	92	89	87	90	87	85	84			84
4	100	93	88	84	98	92	87	83	90	86	82	88	84	82	86	83	81	79			79
5	95	88	82	78	94	87	82	78	85	81	77	83	80	77	82	79	76	75			75
6	91	83	78	74	90	82	77	74	81	76	73	79	76	73	78	75	72	71			71
7	87	79	73	70	86	78	73	69	77	72	69	76	72	69	75	71	68	67			67
8	84	75	70	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64			64
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	65	62	61			61
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	66	62	59	58			58

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	114128
5°	108893
10°	94011
15°	71887
20°	55005
25°	43517
30°	32869
35°	17486
40°	6662
45°	3197
50°	1362
55°	570
60°	216
65°	175
70°	108
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.3	16.7
10°-20°	628.6	32.9
20°-30°	585.5	30.7
30°-40°	302.1	15.8
40°-50°	61.5	3.2
50°-60°	10.5	0.5
60°-70°	2.1	0.1
70°-80°	0.5	0.0
80°-90°	0.0	0.0
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°	1533.4	80.3
0°-40°	1835.5	96.1
0°-60°	1907.6	99.9
0°-90°	1910.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1910.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3701	
5°	3518	319
15°	2252	629
25°	1279	585
35°	464	302
45°	73	62
55°	11	10
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3701.1
2.5°	3651.4
5°	3517.9
7.5°	3298.0
10°	3002.4
12.5°	2614.7
15°	2251.8
17.5°	1937.4
20°	1676.2
22.5°	1463.4
25°	1279.0
27.5°	1104.1
30°	923.1
32.5°	708.0
35°	464.5
37.5°	269.5
40°	165.5
42.5°	108.7
45°	73.3
47.5°	46.1
50°	28.4
52.5°	16.5
55°	10.6
57.5°	4.7
60°	3.5
62.5°	2.4
65°	2.4
67.5°	1.2
70°	1.2
72.5°	1.2
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)