

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: P581857

Luminaire Tested: **HC620D010-HM60525830-61MDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525830-61MDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2270.2 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.96
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

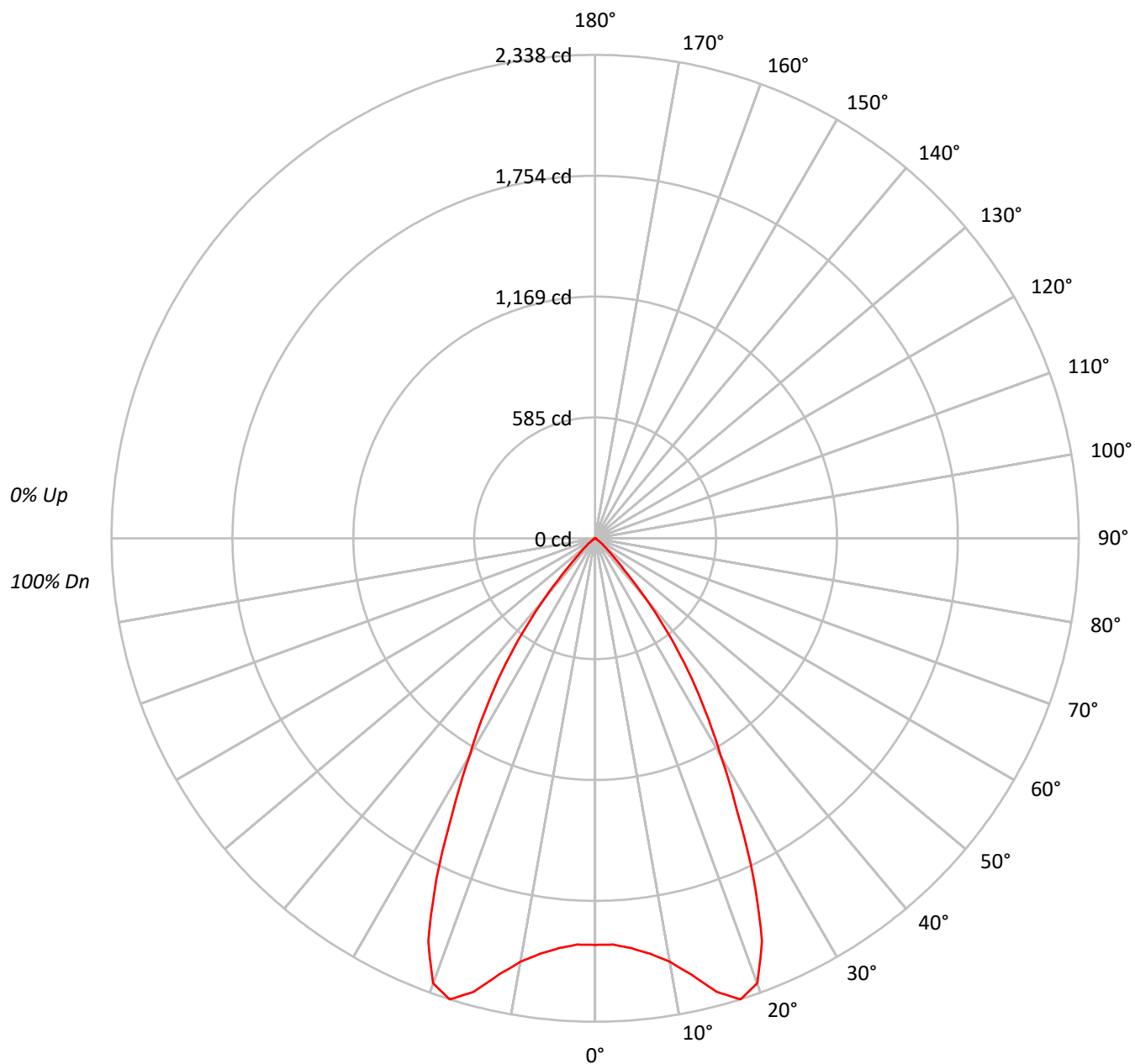
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	114	111	108	106	111	109	106	104	105	103	101		101	99	98		97
2	108	103	99	96	106	101	98	95	98	95	93		95	93	91		92
3	102	96	91	87	100	95	90	86	92	88	85		90	86	84		87
4	97	90	84	80	95	89	83	79	86	82	79		84	81	78		83
5	92	84	78	74	91	83	78	73	81	76	73		80	75	72		78
6	88	79	73	68	86	78	72	68	76	71	68		75	71	67		74
7	83	74	68	64	82	73	67	63	72	67	63		71	66	63		70
8	79	70	63	59	78	69	63	59	68	63	59		67	62	59		66
9	75	66	60	56	74	65	59	55	64	59	55		63	58	55		62
10	72	62	56	52	71	61	56	52	61	55	52		60	55	52		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	107804
5°	109481
10°	115718
15°	128849
20°	133624
25°	109639
30°	76828
35°	52407
40°	27301
45°	9598
50°	4298
55°	1376
60°	800
65°	558
70°	449
75°	318
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.7	8.5
10°-20°	638.5	28.1
20°-30°	813.0	35.8
30°-40°	484.5	21.3
40°-50°	117.5	5.2
50°-60°	18.1	0.8
60°-70°	4.4	0.2
70°-80°	1.6	0.1
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°	1644.2	72.4
0°-40°	2128.7	93.8
0°-60°	2264.3	99.7
0°-90°	2270.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2270.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1966	
5°	1990	193
15°	2270	638
25°	1813	813
35°	783	485
45°	124	117
55°	14	18
65°	4	4
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1966.5
2.5°	1966.5
5°	1989.5
7.5°	2025.6
10°	2078.8
12.5°	2162.3
15°	2270.3
17.5°	2337.9
20°	2290.5
22.5°	2107.6
25°	1812.6
27.5°	1487.2
30°	1213.7
32.5°	991.9
35°	783.1
37.5°	577.3
40°	381.5
42.5°	205.9
45°	123.8
47.5°	77.7
50°	50.4
52.5°	30.3
55°	14.4
57.5°	8.6
60°	7.3
62.5°	5.8
65°	4.3
67.5°	2.8
70°	2.8
72.5°	1.5
75°	1.5
77.5°	1.5
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)