

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: P581867

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525830-61WDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2322.1 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

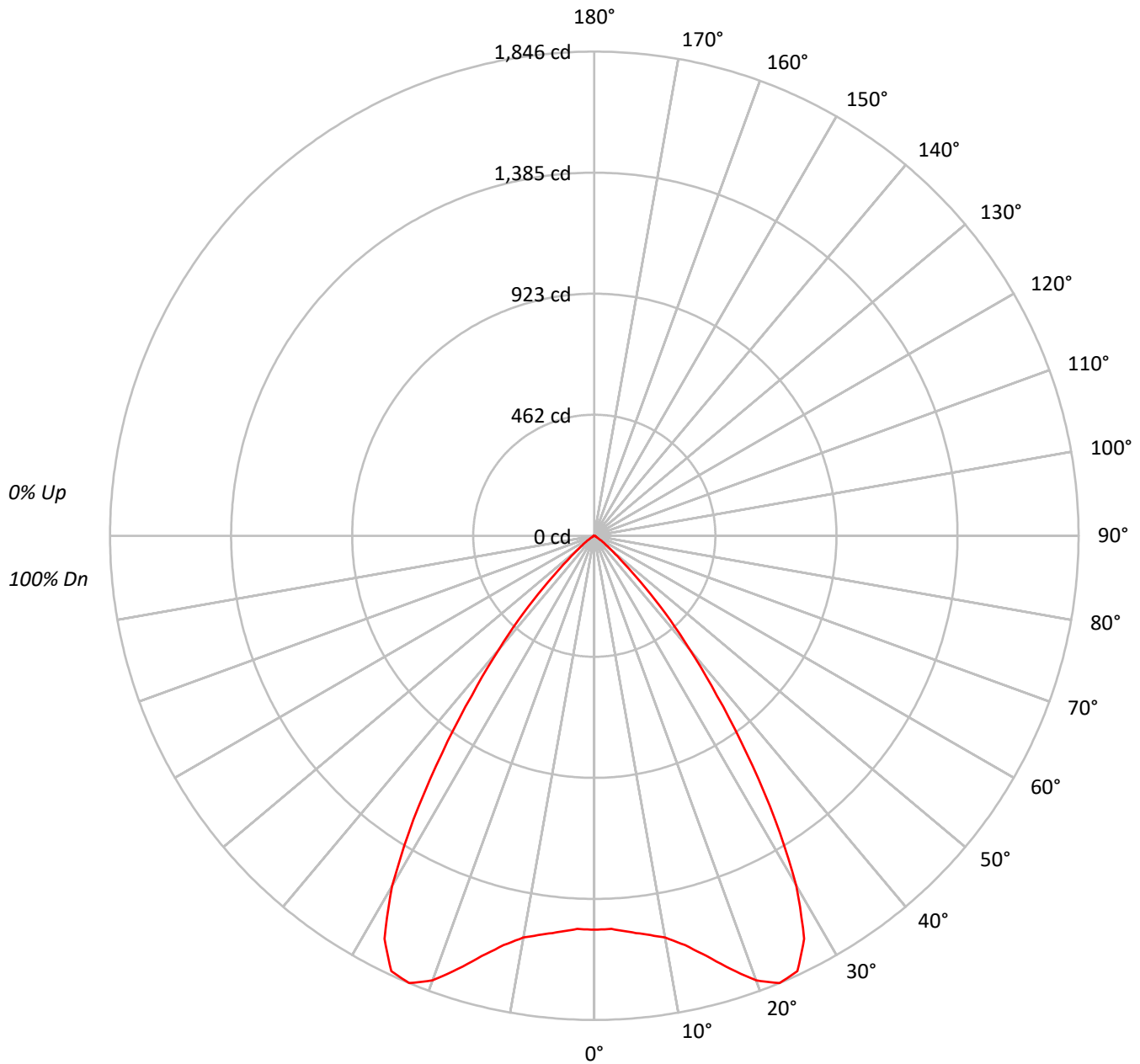
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93		
2	107	102	97	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85		
3	101	94	89	85	99	93	88	84	90	86	82	88	84	81	85	82	80	78		
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	74	72		
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66		
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61		
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	66	61	58	56		
8	76	65	59	54	74	65	59	54	64	58	54	62	57	54	61	57	53	52		
9	71	61	55	50	70	60	54	50	60	54	50	59	53	50	58	53	50	48		
10	68	57	51	47	67	57	51	47	56	50	46	55	50	46	54	50	46	45		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	82323
5°	83430
10°	86555
15°	94132
20°	105242
25°	110777
30°	97515
35°	67639
40°	40383
45°	19204
50°	7249
55°	3030
60°	943
65°	752
70°	449
75°	318
80°	474
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.9	6.3
10°-20°	476.3	20.5
20°-30°	816.1	35.1
30°-40°	633.8	27.3
40°-50°	209.5	9.0
50°-60°	32.1	1.4
60°-70°	5.7	0.2
70°-80°	2.1	0.1
80°-90°	0.6	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°	1438.2	61.9
0°-40°	2072.0	89.2
0°-60°	2313.7	99.6
0°-90°	2322.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2322.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1502	
5°	1516	146
15°	1659	476
25°	1831	816
35°	1011	634
45°	248	210
55°	32	32
65°	6	6
75°	2	2
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1501.7
2.5°	1500.2
5°	1516.1
7.5°	1533.3
10°	1554.9
12.5°	1598.1
15°	1658.6
17.5°	1732.0
20°	1804.0
22.5°	1845.8
25°	1831.4
27.5°	1732.0
30°	1540.5
32.5°	1282.8
35°	1010.7
37.5°	767.4
40°	564.3
42.5°	398.8
45°	247.7
47.5°	138.2
50°	85.0
52.5°	51.8
55°	31.7
57.5°	15.9
60°	8.6
62.5°	7.3
65°	5.8
67.5°	4.3
70°	2.8
72.5°	2.8
75°	1.5
77.5°	1.5
80°	1.5
82.5°	1.5
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)