

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: P581852

Luminaire Tested: **HC620D010-HM60525827-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525827-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2105.5 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

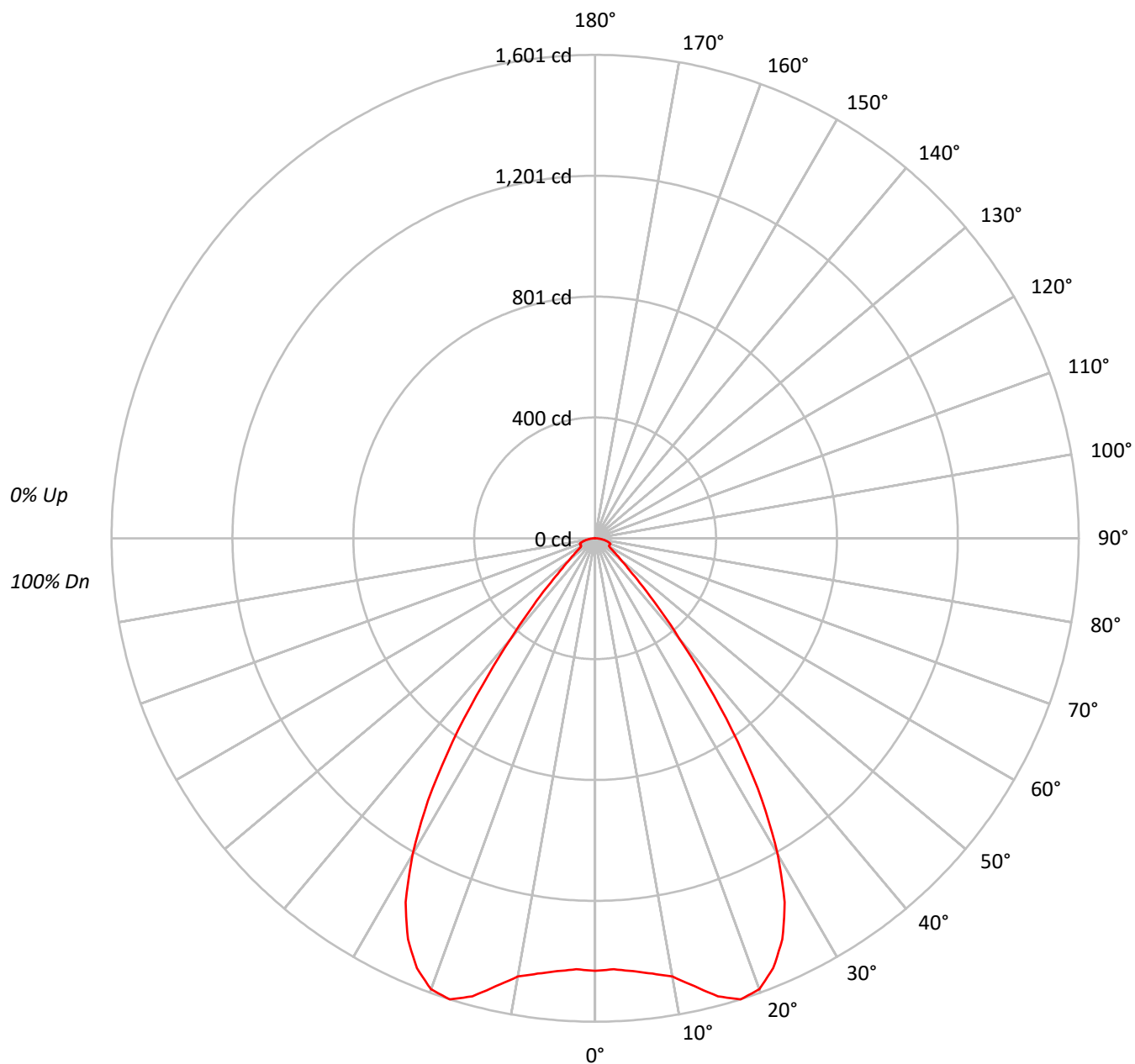
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69		
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63		
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58		
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54		
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50		
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46		
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	78530
5°	79193
10°	82051
15°	89121
20°	92706
25°	88674
30°	76524
35°	55104
40°	31037
45°	16087
50°	9595
55°	6910
60°	5877
65°	6771
70°	8591
75°	9065
80°	8871
85°	8428



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	6.6
10°-20°	442.9	21.0
20°-30°	662.0	31.4
30°-40°	506.1	24.0
40°-50°	176.8	8.4
50°-60°	67.4	3.2
60°-70°	52.8	2.5
70°-80°	44.7	2.1
80°-90°	14.4	0.7
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°	1243.4	59.1
0°-40°	1749.5	83.1
0°-60°	1993.6	94.7
0°-90°	2105.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2105.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1432	
5°	1439	138
15°	1570	443
25°	1466	662
35°	823	506
45°	208	177
55°	72	67
65°	52	53
75°	43	45
85°	13	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1432.5
2.5°	1428.5
5°	1439.1
7.5°	1453.9
10°	1474.0
12.5°	1519.5
15°	1570.3
17.5°	1601.2
20°	1589.1
22.5°	1540.9
25°	1466.0
27.5°	1358.8
30°	1208.9
32.5°	1029.6
35°	823.4
37.5°	610.5
40°	433.7
42.5°	303.9
45°	207.5
47.5°	145.9
50°	112.5
52.5°	88.4
55°	72.3
57.5°	58.9
60°	53.6
62.5°	52.2
65°	52.2
67.5°	54.8
70°	53.6
72.5°	49.5
75°	42.8
77.5°	36.1
80°	28.1
82.5°	20.1
85°	13.4
87.5°	5.3
90°	0.0



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— 0°-180°







(END OF REPORT)