

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: P593149

Luminaire Tested: **HC620D010-HM60525950-61NDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525950-61NDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2003.4 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

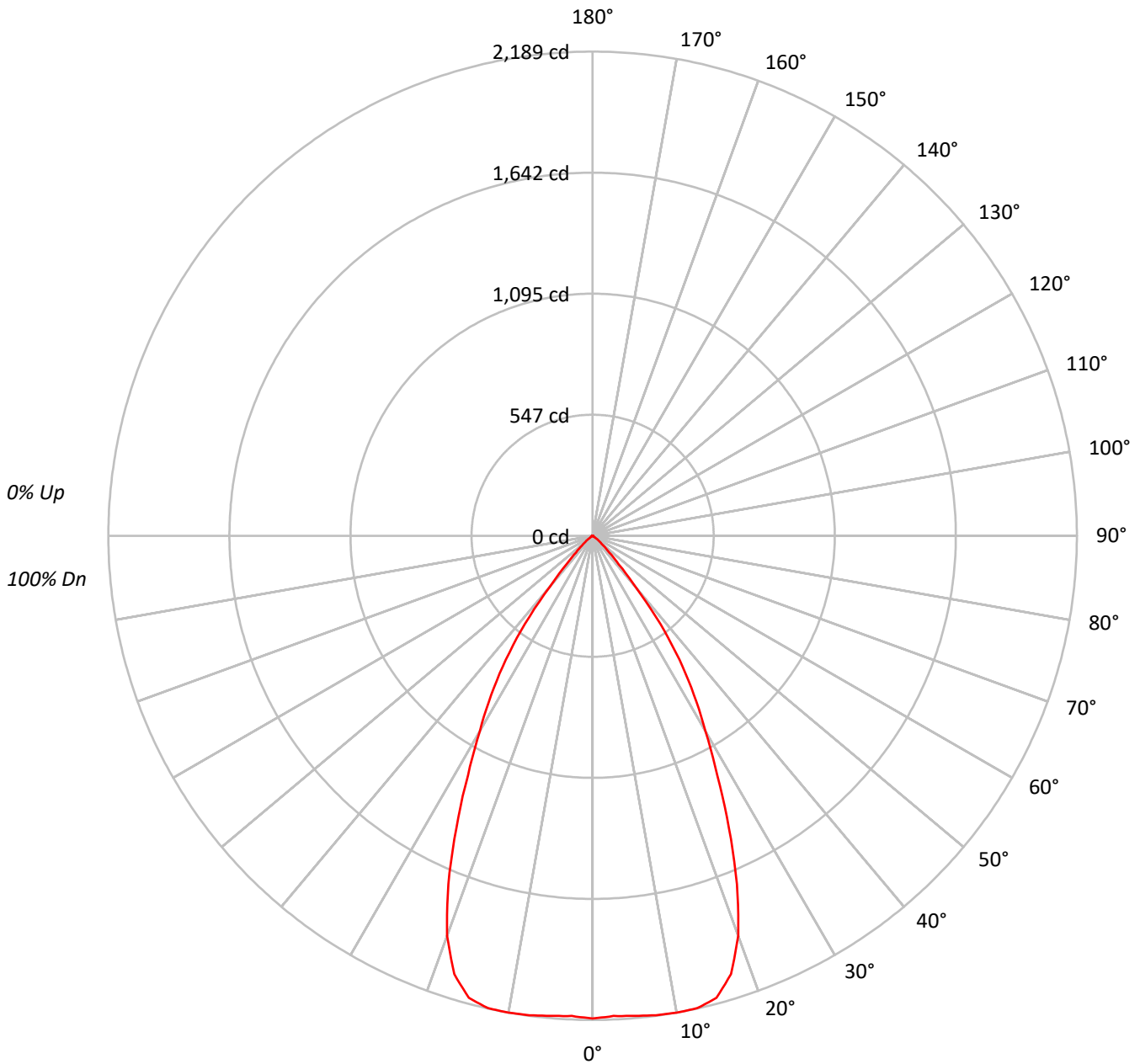
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94			
2	108	103	99	96	106	102	98	95	98	96	93	96	93	91	93	91	89	87			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	82			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	79	83	80	78	76			
5	93	85	79	75	91	84	78	75	82	77	74	80	76	73	79	75	73	71			
6	88	80	74	70	87	79	73	69	77	73	69	76	72	68	75	71	68	67			
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59			
9	76	67	61	57	75	66	61	57	65	60	57	65	60	57	64	60	56	55			
10	73	63	58	54	72	63	57	54	62	57	54	61	57	53	61	56	53	52			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	119645
5°	119882
10°	121858
15°	122742
20°	112202
25°	88166
30°	64535
35°	45782
40°	21655
45°	8257
50°	3701
55°	1004
60°	439
65°	337
70°	224
75°	297
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.4	10.4
10°-20°	597.8	29.8
20°-30°	664.9	33.2
30°-40°	415.4	20.7
40°-50°	98.7	4.9
50°-60°	14.1	0.7
60°-70°	2.9	0.1
70°-80°	1.3	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°	1471.1	73.4
0°-40°	1886.4	94.2
0°-60°	1999.2	99.8
0°-90°	2003.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2003.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2182	
5°	2178	208
15°	2163	598
25°	1458	665
35°	684	415
45°	106	99
55°	10	14
65°	3	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2182.5
2.5°	2173.2
5°	2178.5
7.5°	2186.4
10°	2189.1
12.5°	2187.7
15°	2162.7
17.5°	2078.5
20°	1923.3
22.5°	1704.9
25°	1457.6
27.5°	1220.8
30°	1019.5
32.5°	852.5
35°	684.1
37.5°	502.5
40°	302.6
42.5°	174.9
45°	106.5
47.5°	68.4
50°	43.4
52.5°	25.0
55°	10.5
57.5°	5.2
60°	4.0
62.5°	4.0
65°	2.6
67.5°	2.6
70°	1.4
72.5°	1.4
75°	1.4
77.5°	1.4
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)