

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: P581917

Luminaire Tested: **HC620D010-HM60525927-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525927-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1600.7 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

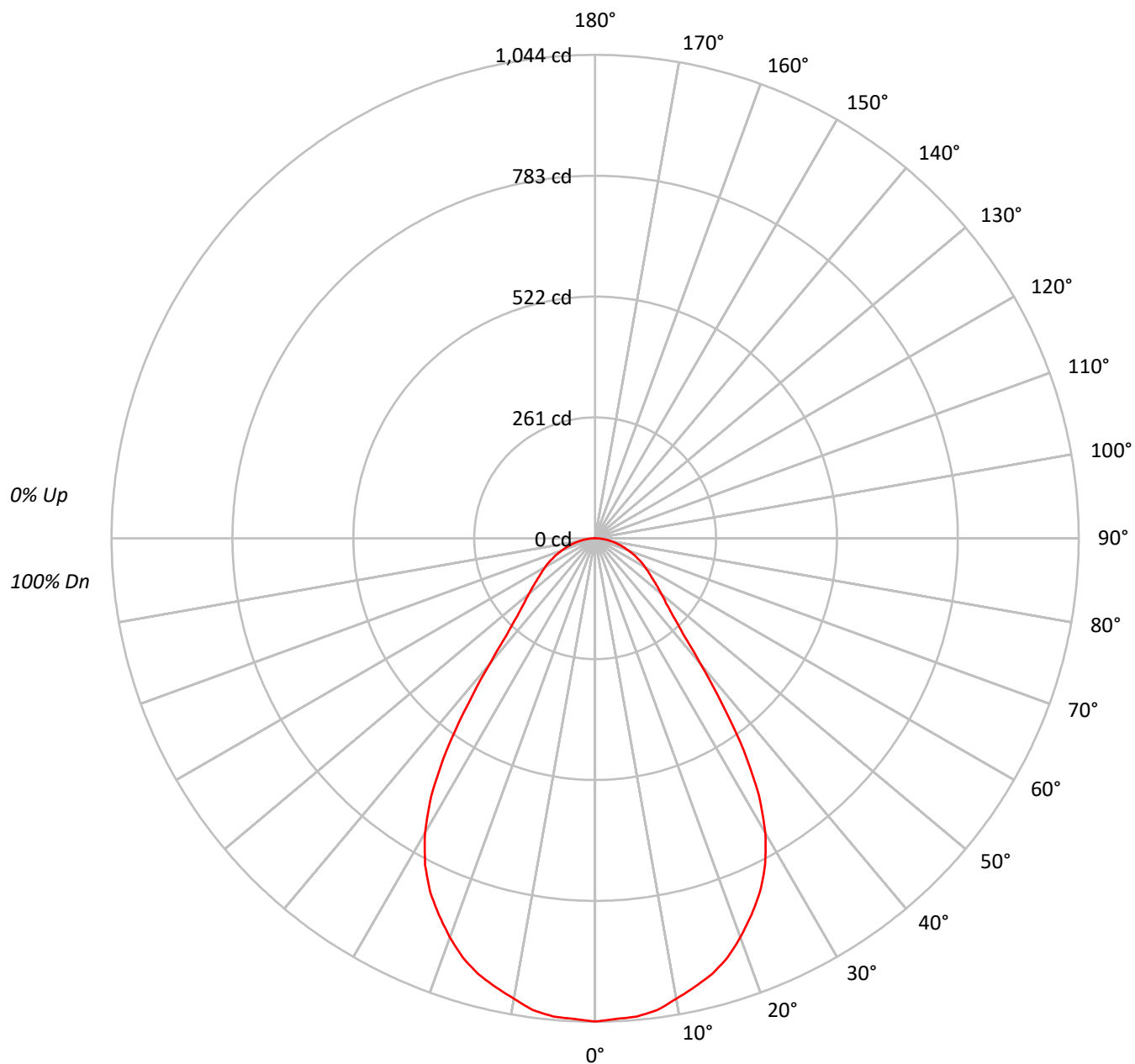
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96		97	95	93		93
2	103	96	91	86	101	95	90	85	91	87	83		88	85	82		85
3	96	87	81	75	94	86	80	75	83	78	73		80	76	72		78
4	89	80	72	67	87	78	72	66	76	70	65		74	69	65		72
5	84	73	65	60	82	72	65	59	70	64	59		68	63	58		66
6	78	67	59	54	77	66	59	54	64	58	53		63	57	53		61
7	73	62	54	49	72	61	54	49	60	53	49		58	53	48		57
8	69	57	50	45	68	57	50	45	56	49	45		54	49	44		53
9	65	53	46	41	64	53	46	41	52	46	41		51	45	41		50
10	62	50	43	38	60	49	43	38	49	42	38		48	42	38		47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	57210
5°	57055
10°	56206
15°	55312
20°	53502
25°	50955
30°	46526
35°	37457
40°	25247
45°	18413
50°	15914
55°	14365
60°	13639
65°	12907
70°	12149
75°	11501
80°	10702
85°	10001



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.1	6.1
10°-20°	273.7	17.1
20°-30°	384.6	24.0
30°-40°	342.3	21.4
40°-50°	191.3	12.0
50°-60°	136.3	8.5
60°-70°	99.1	6.2
70°-80°	57.4	3.6
80°-90°	17.9	1.1
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°	756.4	47.3
0°-40°	1098.7	68.6
0°-60°	1426.3	89.1
0°-90°	1600.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1600.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1044	
5°	1037	98
15°	975	274
25°	842	385
35°	560	342
45°	238	191
55°	150	136
65°	100	99
75°	54	57
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1043.6
2.5°	1039.1
5°	1036.8
7.5°	1027.9
10°	1009.7
12.5°	992.7
15°	974.6
17.5°	949.8
20°	917.1
22.5°	880.8
25°	842.4
27.5°	794.9
30°	735.0
32.5°	658.0
35°	559.7
37.5°	448.9
40°	352.8
42.5°	281.6
45°	237.5
47.5°	208.0
50°	186.6
52.5°	167.3
55°	150.3
57.5°	136.9
60°	124.4
62.5°	113.1
65°	99.5
67.5°	88.1
70°	75.8
72.5°	64.5
75°	54.3
77.5°	44.1
80°	33.9
82.5°	24.9
85°	15.9
87.5°	7.9
90°	0.0



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— 0°-180°







(END OF REPORT)