

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: P581922

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525927-61WDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1671.8 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

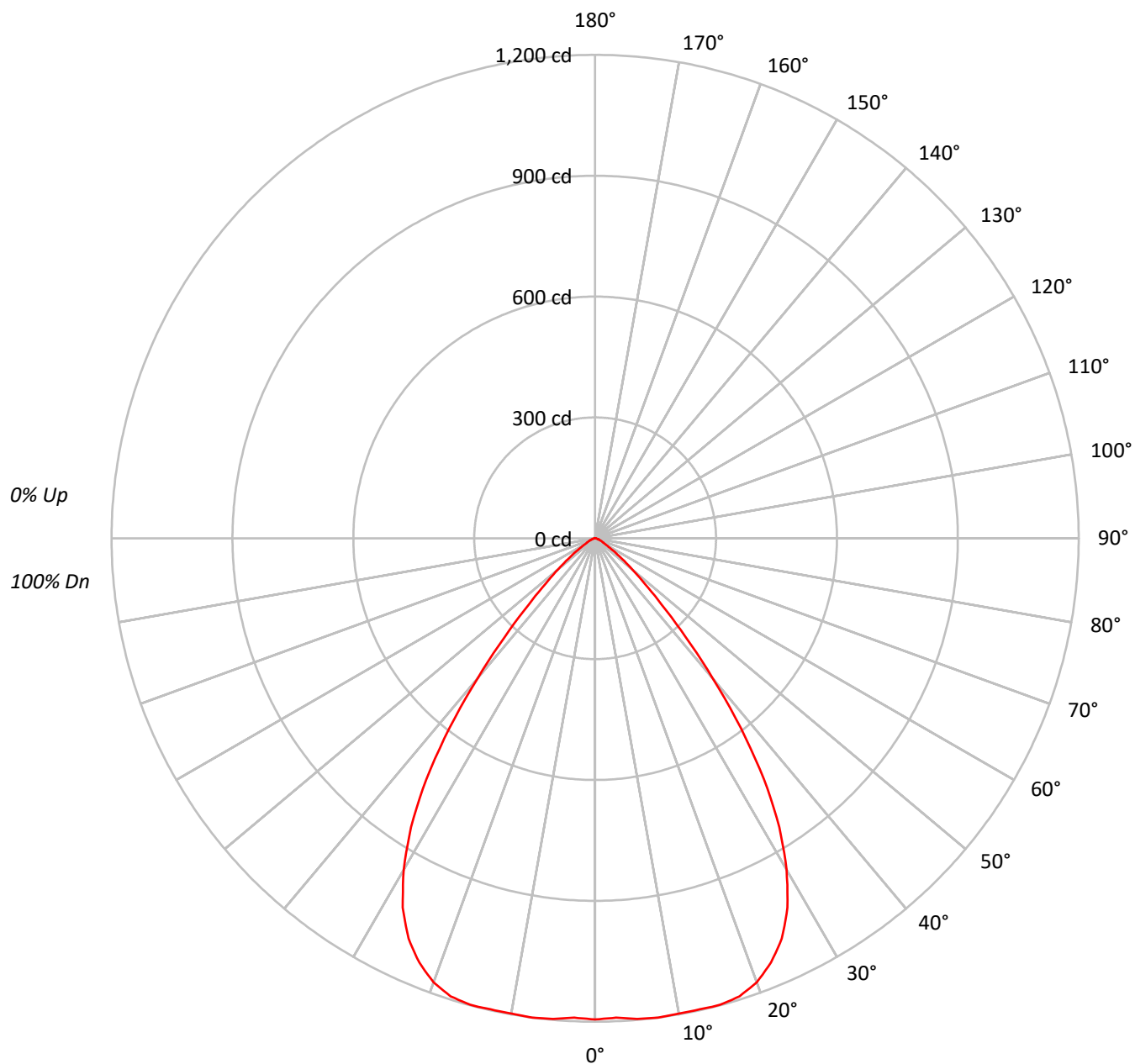
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	105	110	108	105	103	103	101	100		100	98	97		96
2	106	101	96	93	104	99	95	92	96	92	90		93	90	88		90
3	100	93	87	83	98	91	86	82	89	84	81		86	83	80		84
4	94	86	79	75	92	85	79	74	82	77	73		80	76	72		78
5	89	79	73	68	87	78	72	68	76	71	67		75	70	66		73
6	83	73	67	62	82	73	66	62	71	65	61		70	65	61		68
7	79	68	62	57	77	68	61	57	66	60	56		65	60	56		64
8	74	64	57	52	73	63	57	52	62	56	52		61	56	52		60
9	70	59	53	48	69	59	53	48	58	52	48		57	52	48		56
10	66	56	49	45	65	55	49	45	54	49	45		53	48	45		53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	65477
5°	65914
10°	66677
15°	68042
20°	68425
25°	66294
30°	60142
35°	48901
40°	32454
45°	18056
50°	10123
55°	5620
60°	3103
65°	2348
70°	1635
75°	1207
80°	726
85°	692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.3	6.8
10°-20°	338.0	20.2
20°-30°	498.2	29.8
30°-40°	445.6	26.7
40°-50°	193.3	11.6
50°-60°	56.8	3.4
60°-70°	18.2	1.1
70°-80°	6.4	0.4
80°-90°	0.9	0.1
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°	950.6	56.9
0°-40°	1396.3	83.5
0°-60°	1646.4	98.5
0°-90°	1671.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1671.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1194	
5°	1198	114
15°	1199	338
25°	1096	498
35°	731	446
45°	233	193
55°	59	57
65°	18	18
75°	6	6
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1194.4
2.5°	1191.0
5°	1197.8
7.5°	1200.1
10°	1197.8
12.5°	1197.8
15°	1198.9
17.5°	1192.1
20°	1172.9
22.5°	1140.1
25°	1096.0
27.5°	1033.7
30°	950.1
32.5°	850.5
35°	730.7
37.5°	593.8
40°	453.5
42.5°	331.4
45°	232.9
47.5°	166.2
50°	118.7
52.5°	84.9
55°	58.8
57.5°	39.5
60°	28.3
62.5°	22.7
65°	18.1
67.5°	13.6
70°	10.2
72.5°	7.9
75°	5.7
77.5°	4.5
80°	2.3
82.5°	1.1
85°	1.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)