

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: P581868

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581868
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-HM60525830-61WDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2129.1 lumens
Efficiency: N/A
Efficacy: 106.5 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

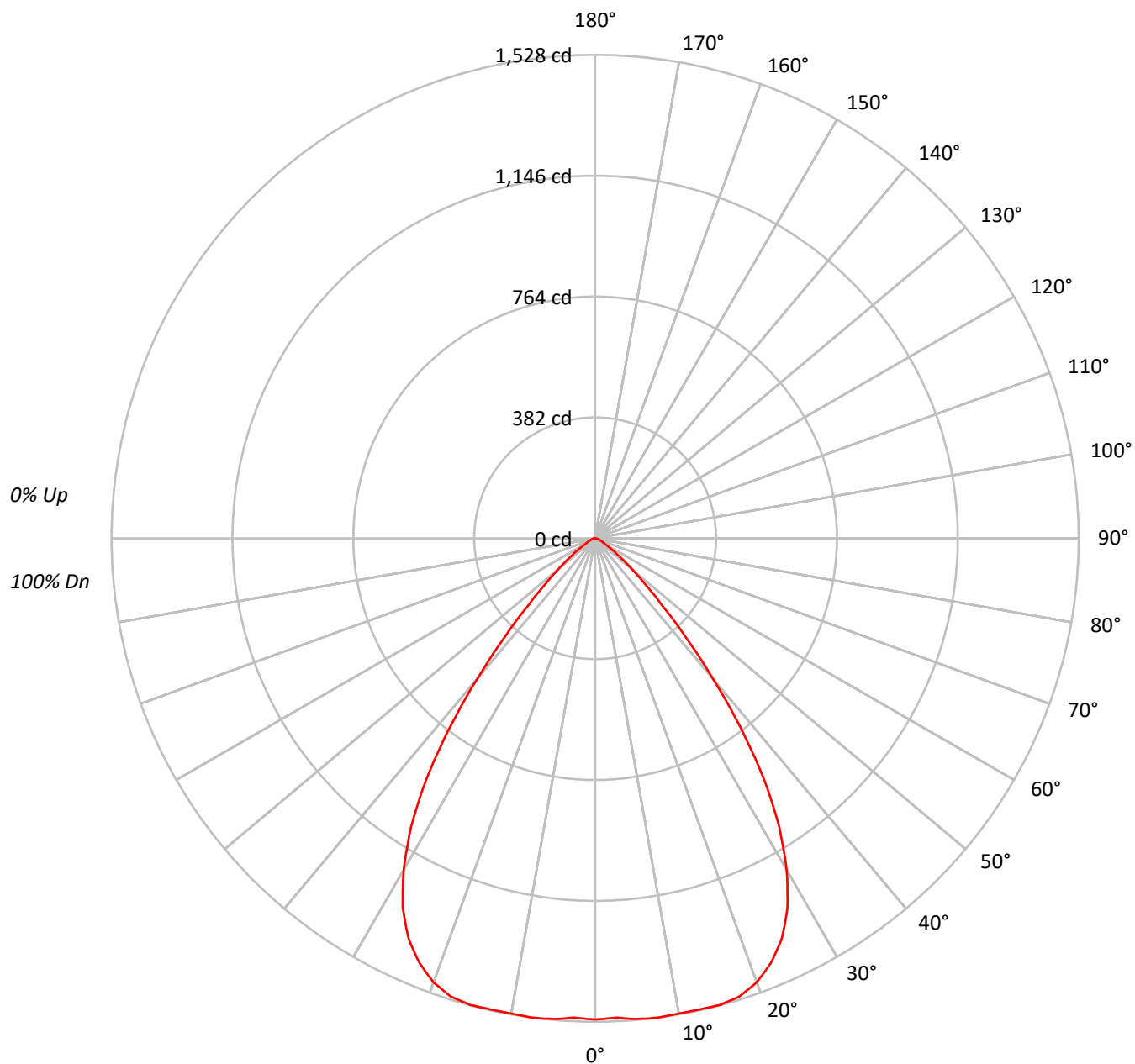
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	83387
5°	83942
10°	84913
15°	86652
20°	87140
25°	84422
30°	76588
35°	62272
40°	41335
45°	23002
50°	12904
55°	7159
60°	3947
65°	2983
70°	2068
75°	1546
80°	884
85°	943



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.6	6.8
10°-20°	430.5	20.2
20°-30°	634.5	29.8
30°-40°	567.5	26.7
40°-50°	246.2	11.6
50°-60°	72.3	3.4
60°-70°	23.1	1.1
70°-80°	8.2	0.4
80°-90°	1.2	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°	1210.6	56.9
0°-40°	1778.1	83.5
0°-60°	2096.7	98.5
0°-90°	2129.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2129.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1521	
5°	1525	146
15°	1527	431
25°	1396	635
35°	930	568
45°	297	246
55°	75	72
65°	23	23
75°	7	8
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1521.1
2.5°	1516.7
5°	1525.4
7.5°	1528.3
10°	1525.4
12.5°	1525.4
15°	1526.8
17.5°	1518.2
20°	1493.7
22.5°	1451.9
25°	1395.7
27.5°	1316.5
30°	1209.9
32.5°	1083.1
35°	930.5
37.5°	756.2
40°	577.6
42.5°	422.0
45°	296.7
47.5°	211.8
50°	151.3
52.5°	108.0
55°	74.9
57.5°	50.4
60°	36.0
62.5°	28.8
65°	23.0
67.5°	17.3
70°	12.9
72.5°	10.1
75°	7.3
77.5°	5.8
80°	2.8
82.5°	1.5
85°	1.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)