

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: P581874

Luminaire Tested: **HC6R20D010-HM60525830-62RMDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC6R20D010-HM60525830-62RMDC
Description: HALO COMMERCIAL 6" ROUND, RETROFIT FRAME, WITH 6" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2268.8 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 0.96
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

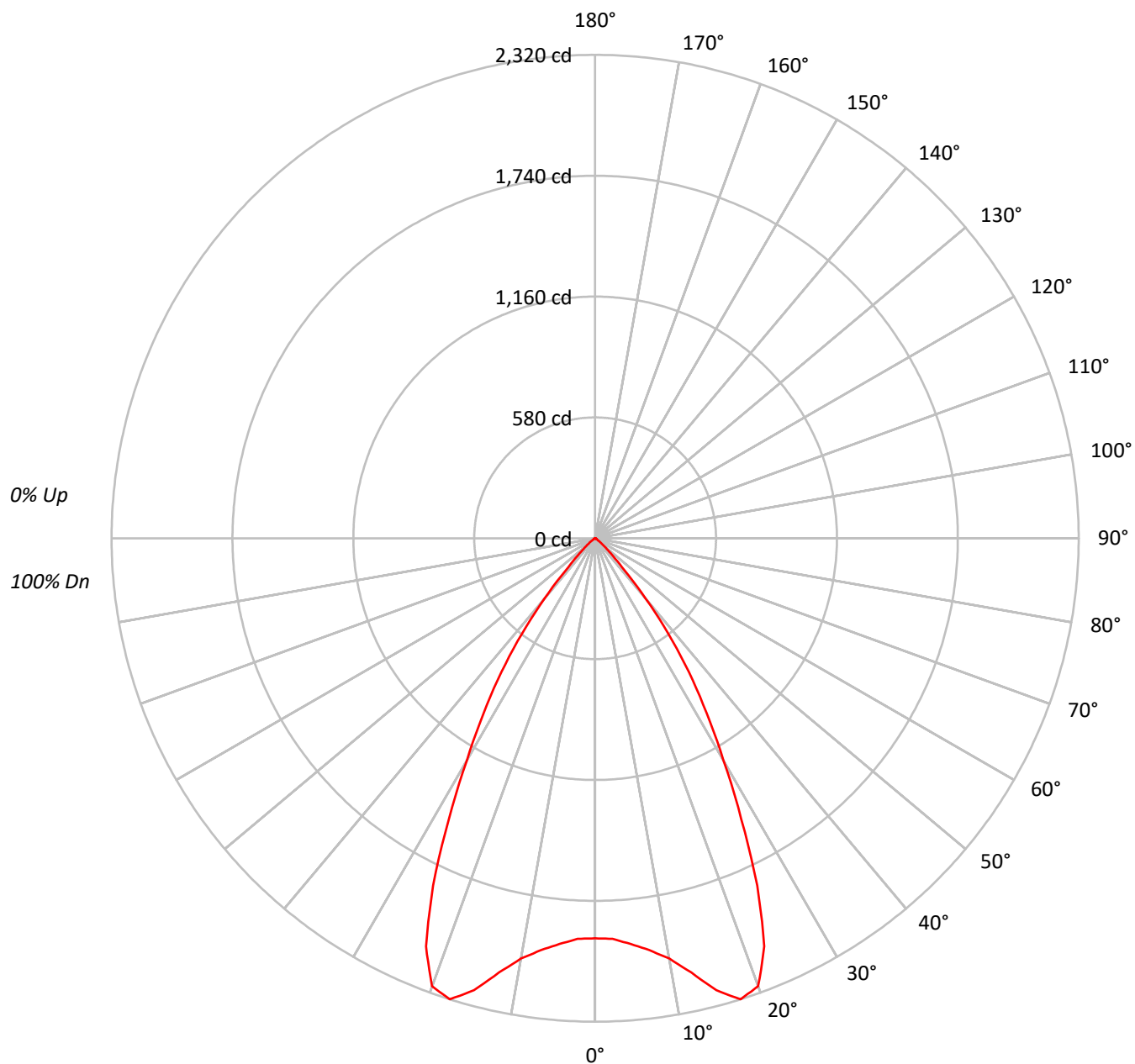
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106	111	109	106	104	105	103	101		101	99	98		97
2	108	103	99	96	106	101	98	95	98	95	92		95	93	91		92
3	102	96	91	87	100	95	90	86	92	88	85		90	86	84		87
4	97	90	84	80	95	89	83	79	86	82	79		84	81	78		83
5	92	84	78	74	91	83	77	73	81	76	73		79	75	72		78
6	88	79	73	68	86	78	72	68	76	71	68		75	71	67		74
7	83	74	68	64	82	73	67	63	72	67	63		71	66	63		70
8	79	69	63	59	78	69	63	59	68	63	59		67	62	59		66
9	75	65	59	55	74	65	59	55	64	59	55		63	58	55		62
10	72	62	56	52	71	61	56	52	60	55	52		60	55	52		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	105233
5°	107539
10°	113993
15°	127413
20°	133408
25°	111236
30°	77854
35°	52428
40°	27001
45°	9381
50°	4170
55°	1376
60°	636
65°	558
70°	449
75°	318
80°	474
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.4	8.3
10°-20°	632.6	27.9
20°-30°	822.1	36.2
30°-40°	485.6	21.4
40°-50°	115.9	5.1
50°-60°	17.1	0.8
60°-70°	4.2	0.2
70°-80°	1.8	0.1
80°-90°	0.2	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°	1644.1	72.5
0°-40°	2129.7	93.9
0°-60°	2262.6	99.7
0°-90°	2268.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2268.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1920	
5°	1954	189
15°	2245	633
25°	1839	822
35°	783	486
45°	121	116
55°	14	17
65°	4	4
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1919.6
2.5°	1923.9
5°	1954.2
7.5°	1993.1
10°	2047.8
12.5°	2134.2
15°	2245.0
17.5°	2319.9
20°	2286.8
22.5°	2119.8
25°	1839.0
27.5°	1517.9
30°	1229.9
32.5°	995.1
35°	783.4
37.5°	576.0
40°	377.3
42.5°	206.0
45°	121.0
47.5°	74.9
50°	48.9
52.5°	28.8
55°	14.4
57.5°	7.3
60°	5.8
62.5°	5.8
65°	4.3
67.5°	2.8
70°	2.8
72.5°	1.5
75°	1.5
77.5°	1.5
80°	1.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)