

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: P581981

Luminaire Tested: **HC6R20D010-HM60525930-62RMDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581981
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-HM60525930-62RMDC
Description: HALO COMMERCIAL 6" ROUND, RETROFIT FRAME, WITH 6" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1944.8 lumens
Efficiency: N/A
Efficacy: 97.2 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

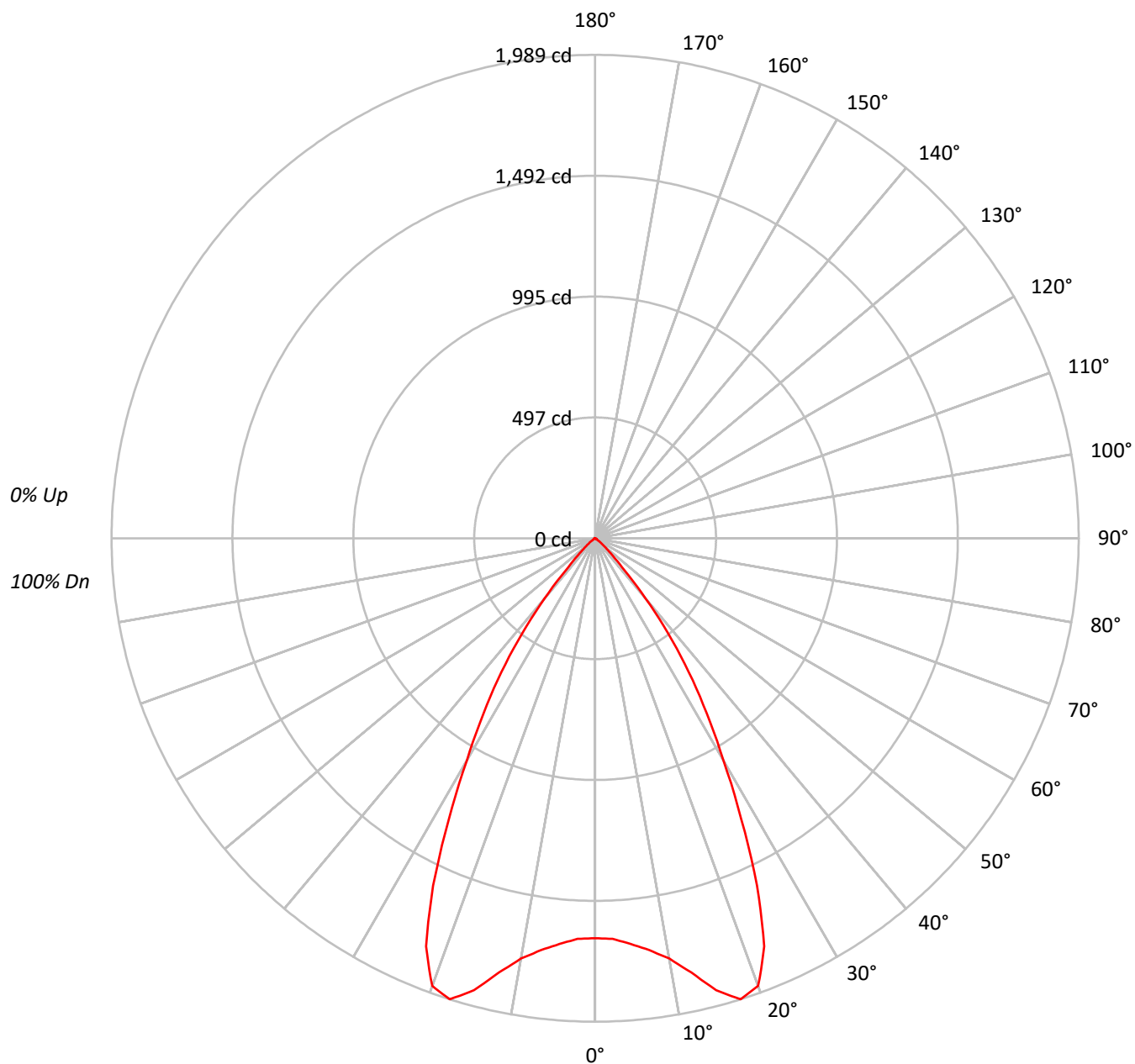
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	90212
5°	92180
10°	97721
15°	109223
20°	114361
25°	95358
30°	66738
35°	44939
40°	23151
45°	8040
50°	3573
55°	1176
60°	548
65°	480
70°	401
75°	254
80°	379
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.4	8.3
10°-20°	542.3	27.9
20°-30°	704.7	36.2
30°-40°	416.3	21.4
40°-50°	99.3	5.1
50°-60°	14.6	0.8
60°-70°	3.7	0.2
70°-80°	1.4	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°	1409.4	72.5
0°-40°	1825.6	93.9
0°-60°	1939.5	99.7
0°-90°	1944.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1944.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1646	
5°	1675	162
15°	1924	542
25°	1576	705
35°	672	416
45°	104	99
55°	12	15
65°	4	4
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1645.6
2.5°	1649.3
5°	1675.1
7.5°	1708.6
10°	1755.5
12.5°	1829.5
15°	1924.5
17.5°	1988.8
20°	1960.3
22.5°	1817.1
25°	1576.5
27.5°	1301.1
30°	1054.3
32.5°	853.0
35°	671.5
37.5°	493.8
40°	323.5
42.5°	176.5
45°	103.7
47.5°	64.2
50°	41.9
52.5°	24.7
55°	12.3
57.5°	6.1
60°	5.0
62.5°	5.0
65°	3.7
67.5°	2.5
70°	2.5
72.5°	1.2
75°	1.2
77.5°	1.2
80°	1.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)