

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: P581928

Luminaire Tested: **HC6R20D010-HM60525927-62RMDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581928
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-HM60525927-62RMDC
Description: HALO COMMERCIAL 6" ROUND, RETROFIT FRAME, WITH 6" MEDIUM
DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1781.5 lumens
Efficiency: N/A
Efficacy: 89.1 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

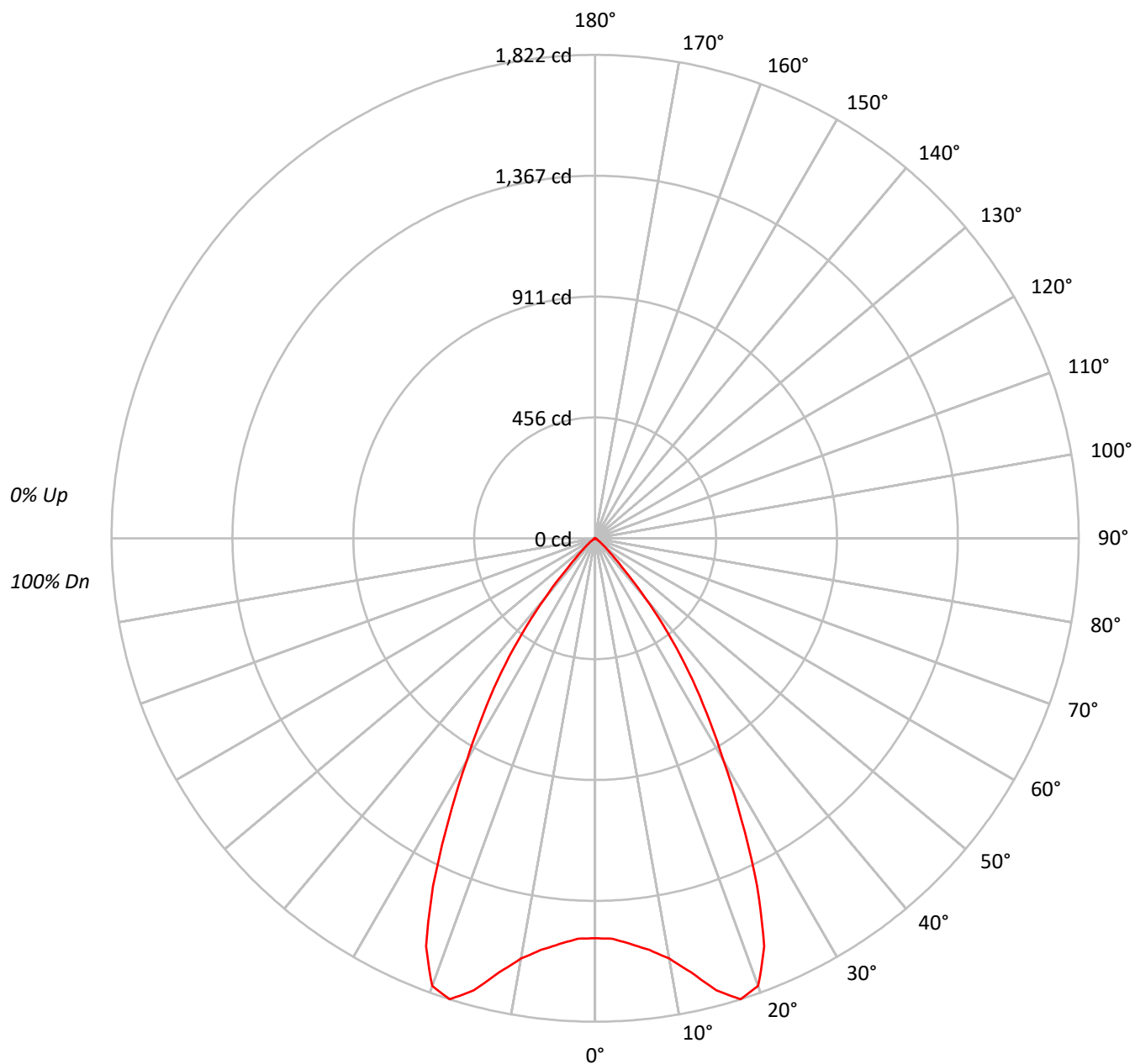
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581928

CATALOG NUMBER: HC6R20D010-HM60525927-62RMDC

Luminous Intensity Polar Plot





TEST NUMBER: P581928

CATALOG NUMBER: HC6R20D010-HM60525927-62RMDC

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°	82630
5°	84443
10°	89516
15°	100052
20°	104758
25°	87344
30°	61136
35°	41171
40°	21204
45°	7357
50°	3275
55°	1080
60°	493
65°	441
70°	369
75°	233
80°	347
85°	0



TEST NUMBER: P581928

CATALOG NUMBER: HC6R20D010-HM60525927-62RMDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	8.3
10°-20°	496.7	27.9
20°-30°	645.6	36.2
30°-40°	381.3	21.4
40°-50°	90.9	5.1
50°-60°	13.4	0.8
60°-70°	3.4	0.2
70°-80°	1.3	0.1
80°-90°	0.1	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°	1291.0	72.5
0°-40°	1672.3	93.9
0°-60°	1776.7	99.7
0°-90°	1781.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1781.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1507	
5°	1534	149
15°	1763	497
25°	1444	646
35°	615	381
45°	95	91
55°	11	13
65°	3	3
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P581928

CATALOG NUMBER: HC6R20D010-HM60525927-62RMDC

CANDELA DISTRIBUTION (FULL):

0°	
0°	1507.3
2.5°	1510.7
5°	1534.5
7.5°	1565.0
10°	1608.1
12.5°	1675.8
15°	1762.9
17.5°	1821.8
20°	1795.7
22.5°	1664.6
25°	1444.0
27.5°	1191.9
30°	965.8
32.5°	781.4
35°	615.2
37.5°	452.3
40°	296.3
42.5°	161.7
45°	94.9
47.5°	58.8
50°	38.4
52.5°	22.7
55°	11.3
57.5°	5.7
60°	4.5
62.5°	4.5
65°	3.4
67.5°	2.3
70°	2.3
72.5°	1.1
75°	1.1
77.5°	1.1
80°	1.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)