

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: P593133

Luminaire Tested: **HC620D010-HM60525850-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525850-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2085.1 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

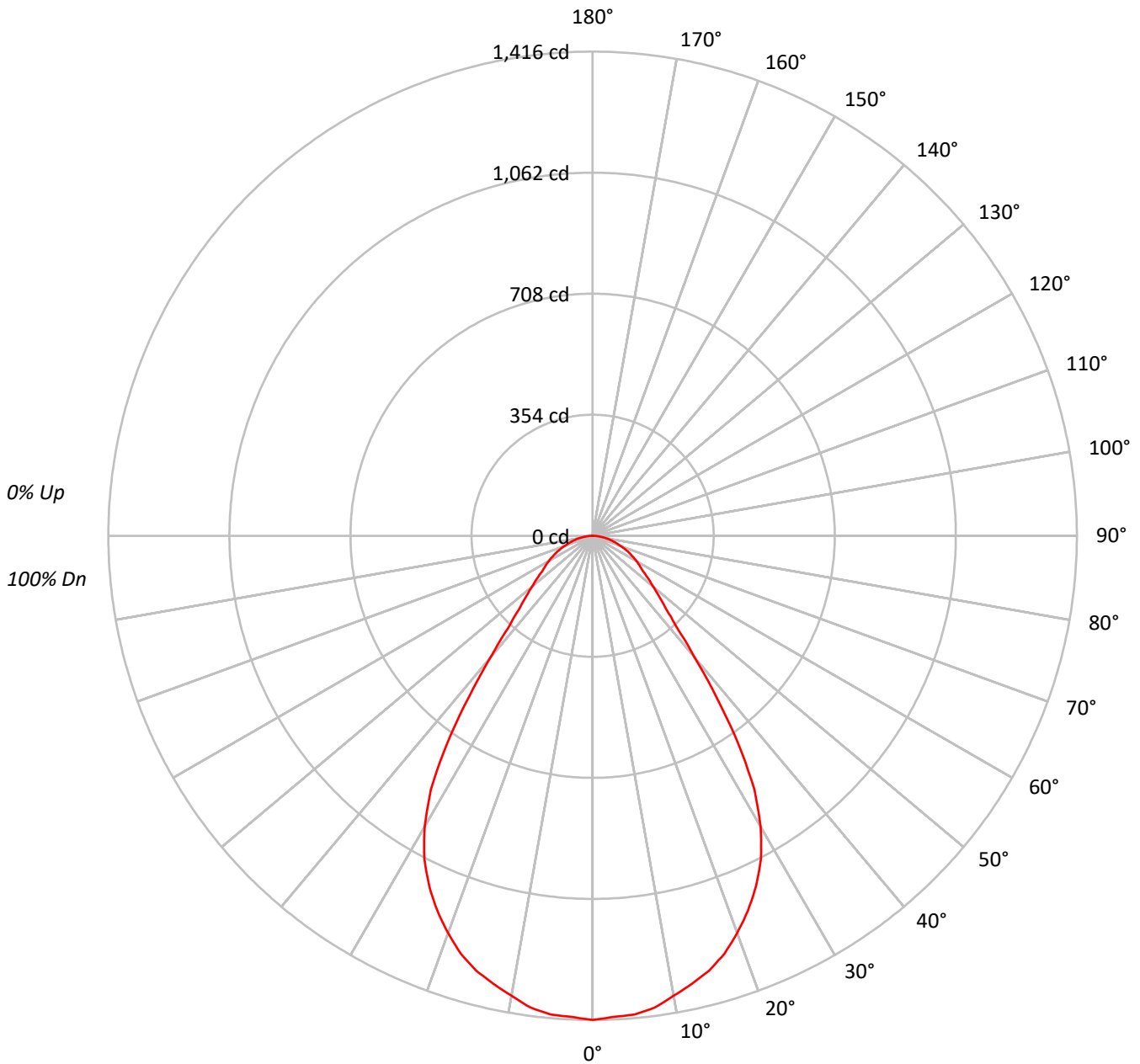
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P593133

CATALOG NUMBER: HC620D010-HM60525850-61MDW

Luminous Intensity Polar Plot





TEST NUMBER: P593133

CATALOG NUMBER: HC620D010-HM60525850-61MDW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	77620
5°	77333
10°	76045
15°	74700
20°	72118
25°	68387
30°	62206
35°	49704
40°	33162
45°	23638
50°	19692
55°	17165
60°	16227
65°	15268
70°	14041
75°	13111
80°	11902
85°	10504



TEST NUMBER: P593133

CATALOG NUMBER: HC620D010-HM60525850-61MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.9	6.4
10°-20°	369.6	17.7
20°-30°	516.5	24.8
30°-40°	454.9	21.8
40°-50°	245.8	11.8
50°-60°	164.3	7.9
60°-70°	116.5	5.6
70°-80°	65.5	3.1
80°-90°	19.1	0.9
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°	1018.9	48.9
0°-40°	1473.9	70.7
0°-60°	1884.0	90.4
0°-90°	2085.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2085.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1416	
5°	1405	133
15°	1316	370
25°	1131	516
35°	743	455
45°	305	246
55°	180	164
65°	118	116
75°	62	66
85°	17	19
90°	0	



TEST NUMBER: P593133

CATALOG NUMBER: HC620D010-HM60525850-61MDW

CANDELA DISTRIBUTION (FULL):

0°	
0°	1415.9
2.5°	1408.3
5°	1405.3
7.5°	1391.7
10°	1366.1
12.5°	1341.9
15°	1316.2
17.5°	1281.5
20°	1236.2
22.5°	1186.5
25°	1130.6
27.5°	1065.7
30°	982.7
32.5°	880.0
35°	742.7
37.5°	593.2
40°	463.4
42.5°	365.3
45°	304.9
47.5°	264.1
50°	230.9
52.5°	203.8
55°	179.6
57.5°	163.0
60°	148.0
62.5°	132.8
65°	117.7
67.5°	102.6
70°	87.6
72.5°	74.0
75°	61.9
77.5°	49.9
80°	37.7
82.5°	27.2
85°	16.7
87.5°	7.6
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)