

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: P581875

Luminaire Tested: **HC620D010-HM60525835-61MDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525835-61MDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

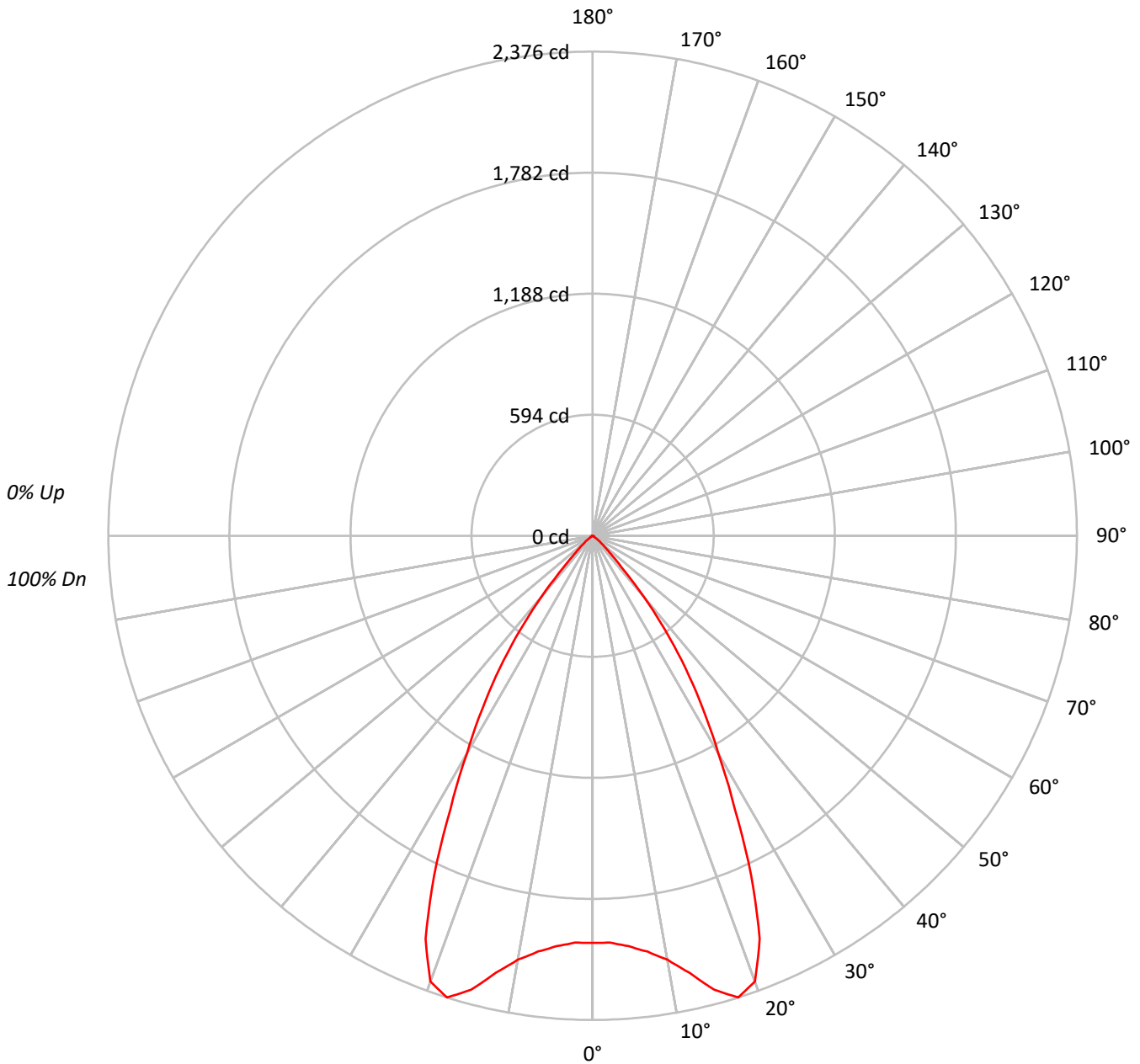
Lumens per Lamp: N/A
Luminaire Lumens: 2306.7 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.96
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P581875
CATALOG NUMBER: HC620D010-HM60525835-61MDC

Luminous Intensity Polar Plot





TEST NUMBER: P581875

CATALOG NUMBER: HC620D010-HM60525835-61MDC

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			
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	89	83	79	86	82	79	84	81	78	83	79	77	75			
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70			
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65			
7	83	74	68	64	82	73	68	63	72	67	63	71	66	63	70	66	62	61			
8	79	70	63	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57			
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54			
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	109542
5°	111242
10°	117583
15°	130920
20°	135771
25°	111394
30°	78063
35°	53251
40°	27738
45°	9753
50°	4367
55°	1395
60°	811
65°	571
70°	465
75°	318
80°	0
85°	0



TEST NUMBER: P581875

CATALOG NUMBER: HC620D010-HM60525835-61MDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.8	8.5
10°-20°	648.8	28.1
20°-30°	826.1	35.8
30°-40°	492.3	21.3
40°-50°	119.4	5.2
50°-60°	18.3	0.8
60°-70°	4.5	0.2
70°-80°	1.6	0.1
80°-90°	0.0	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°	1670.6	72.4
0°-40°	2162.9	93.8
0°-60°	2300.6	99.7
0°-90°	2306.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2306.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1998	
5°	2022	196
15°	2307	649
25°	1842	826
35°	796	492
45°	126	119
55°	15	18
65°	4	5
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P581875

CATALOG NUMBER: HC620D010-HM60525835-61MDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	1998.2
2.5°	1998.2
5°	2021.5
7.5°	2058.1
10°	2112.3
12.5°	2197.1
15°	2306.8
17.5°	2375.6
20°	2327.3
22.5°	2141.5
25°	1841.6
27.5°	1511.1
30°	1233.2
32.5°	1007.8
35°	795.7
37.5°	586.6
40°	387.6
42.5°	209.2
45°	125.8
47.5°	79.0
50°	51.2
52.5°	30.7
55°	14.6
57.5°	8.7
60°	7.4
62.5°	5.9
65°	4.4
67.5°	2.9
70°	2.9
72.5°	1.5
75°	1.5
77.5°	1.5
80°	0.0
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)