

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: P581197

Luminaire Tested: **HC455D010-HM44560927-41MDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581197
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC455D010-HM44560927-41MDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" 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: 3950.8 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.96
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

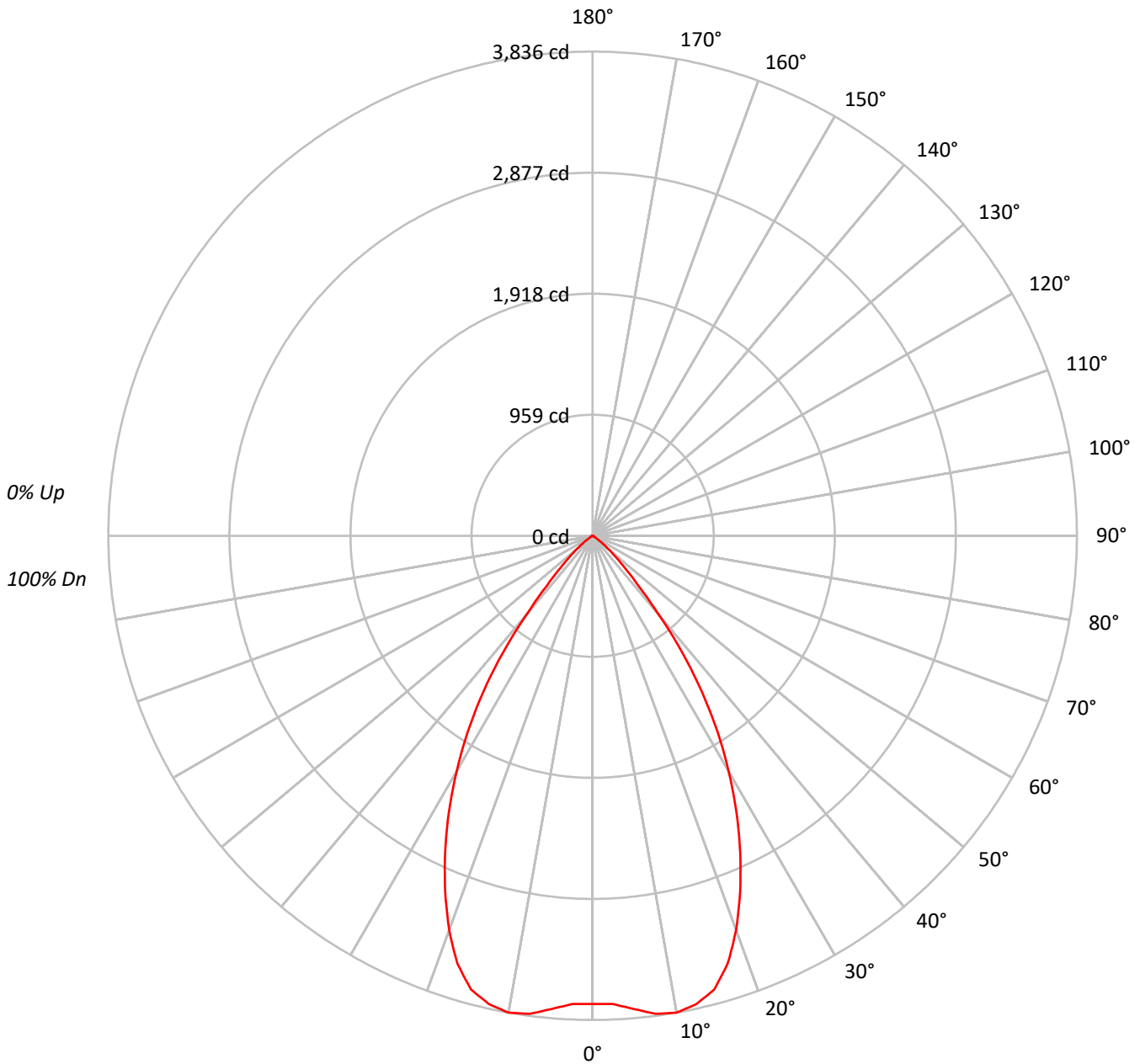
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581197

CATALOG NUMBER: HC455D010-HM44560927-41MDC

Luminous Intensity Polar Plot





TEST NUMBER: P581197

CATALOG NUMBER: HC455D010-HM44560927-41MDC

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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	98	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86			
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80			
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74			
5	91	83	77	72	90	82	76	72	80	75	72	78	74	71	77	73	70	69			
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64			
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	60			
8	78	68	62	58	77	68	62	58	67	61	57	65	61	57	65	60	57	56			
9	74	64	58	54	73	64	58	54	63	57	54	62	57	54	61	57	53	52			
10	70	61	55	51	69	60	54	51	59	54	50	58	54	50	58	53	50	49			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	457612
5°	466022
10°	480390
15°	475070
20°	436235
25°	376335
30°	306703
35°	227085
40°	130278
45°	62972
50°	29973
55°	10451
60°	3799
65°	2218
70°	1875
75°	1239
80°	0
85°	0



TEST NUMBER: P581197

CATALOG NUMBER: HC455D010-HM44560927-41MDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.0	9.2
10°-20°	1031.4	26.1
20°-30°	1259.5	31.9
30°-40°	925.9	23.4
40°-50°	306.9	7.8
50°-60°	54.2	1.4
60°-70°	8.2	0.2
70°-80°	2.7	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°	2652.9	67.1
0°-40°	3578.8	90.6
0°-60°	3939.9	99.7
0°-90°	3950.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3950.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3710	
5°	3764	362
15°	3720	1031
25°	2765	1259
35°	1508	926
45°	361	307
55°	49	54
65°	8	8
75°	3	3
85°	0	0
90°	0	



TEST NUMBER: P581197

CATALOG NUMBER: HC455D010-HM44560927-41MDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	3710.0
2.5°	3712.6
5°	3763.8
7.5°	3820.2
10°	3835.5
12.5°	3799.7
15°	3720.3
17.5°	3556.5
20°	3323.4
22.5°	3052.0
25°	2765.2
27.5°	2465.7
30°	2153.4
32.5°	1841.0
35°	1508.1
37.5°	1170.1
40°	809.1
42.5°	535.2
45°	361.0
47.5°	240.6
50°	156.2
52.5°	92.1
55°	48.6
57.5°	20.5
60°	15.4
62.5°	10.2
65°	7.6
67.5°	5.2
70°	5.2
72.5°	2.6
75°	2.6
77.5°	2.6
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)