

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: P581180

Luminaire Tested: **HC455D010-HM44560840-41NDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC455D010-HM44560840-41NDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5561.0 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

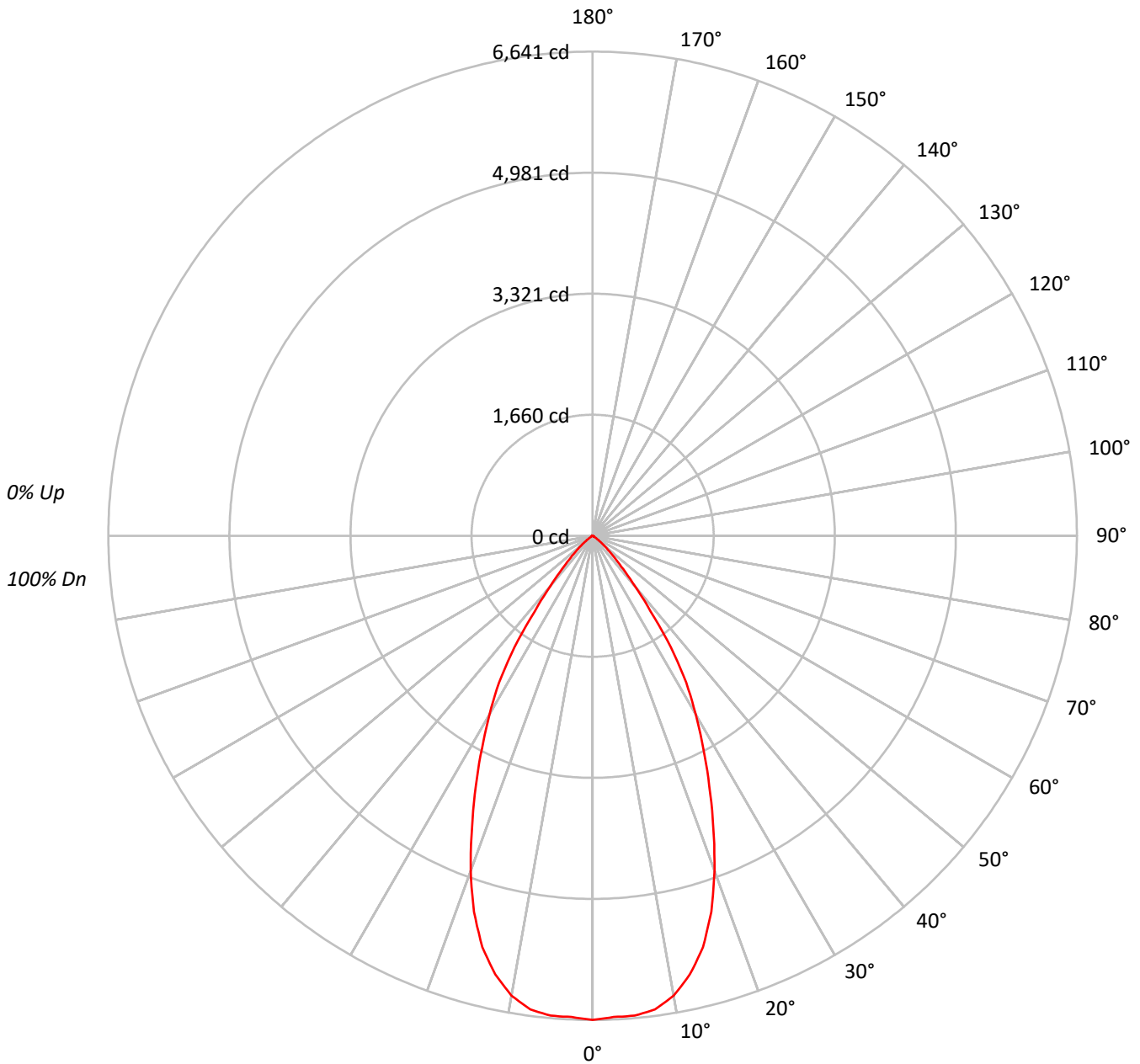
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581180

CATALOG NUMBER: HC455D010-HM44560840-41NDC

Luminous Intensity Polar Plot





TEST NUMBER: P581180

CATALOG NUMBER: HC455D010-HM44560840-41NDC

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	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94			94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87			87
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81			81
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76			76
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71			71
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66			66
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			62
8	80	70	64	60	78	70	64	60	69	64	60	68	63	60	67	62	59	58			58
9	76	66	61	57	75	66	60	57	65	60	56	64	59	56	63	59	56	55			55
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	51			51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	819089
5°	818045
10°	802103
15°	745839
20°	641423
25°	515276
30°	402286
35°	281655
40°	144528
45°	73368
50°	36766
55°	13741
60°	5551
65°	4407
70°	2705
75°	1763
80°	2628
85°	0



TEST NUMBER: P581180

CATALOG NUMBER: HC455D010-HM44560840-41NDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	624.7	11.2
10°-20°	1612.2	29.0
20°-30°	1736.8	31.2
30°-40°	1141.1	20.5
40°-50°	354.8	6.4
50°-60°	69.7	1.3
60°-70°	14.8	0.3
70°-80°	5.4	0.1
80°-90°	1.5	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°	3973.7	71.5
0°-40°	5114.8	92.0
0°-60°	5539.3	99.6
0°-90°	5561.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5561.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6641	
5°	6607	625
15°	5841	1612
25°	3786	1737
35°	1870	1141
45°	421	355
55°	64	70
65°	15	15
75°	4	5
85°	0	2
90°	0	



TEST NUMBER: P581180

CATALOG NUMBER: HC455D010-HM44560840-41NDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	6640.6
2.5°	6606.9
5°	6606.9
7.5°	6554.2
10°	6404.1
12.5°	6163.7
15°	5840.7
17.5°	5408.7
20°	4886.6
22.5°	4323.2
25°	3786.1
27.5°	3286.6
30°	2824.5
32.5°	2388.8
35°	1870.5
37.5°	1303.3
40°	897.6
42.5°	619.8
45°	420.6
47.5°	285.4
50°	191.6
52.5°	120.2
55°	63.9
57.5°	26.3
60°	22.5
62.5°	18.8
65°	15.1
67.5°	11.2
70°	7.5
72.5°	7.5
75°	3.7
77.5°	3.7
80°	3.7
82.5°	3.7
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)