

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: P581253

Luminaire Tested: **HC455D010-HM44560940-41WDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC455D010-HM44560940-41WDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4871.4 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

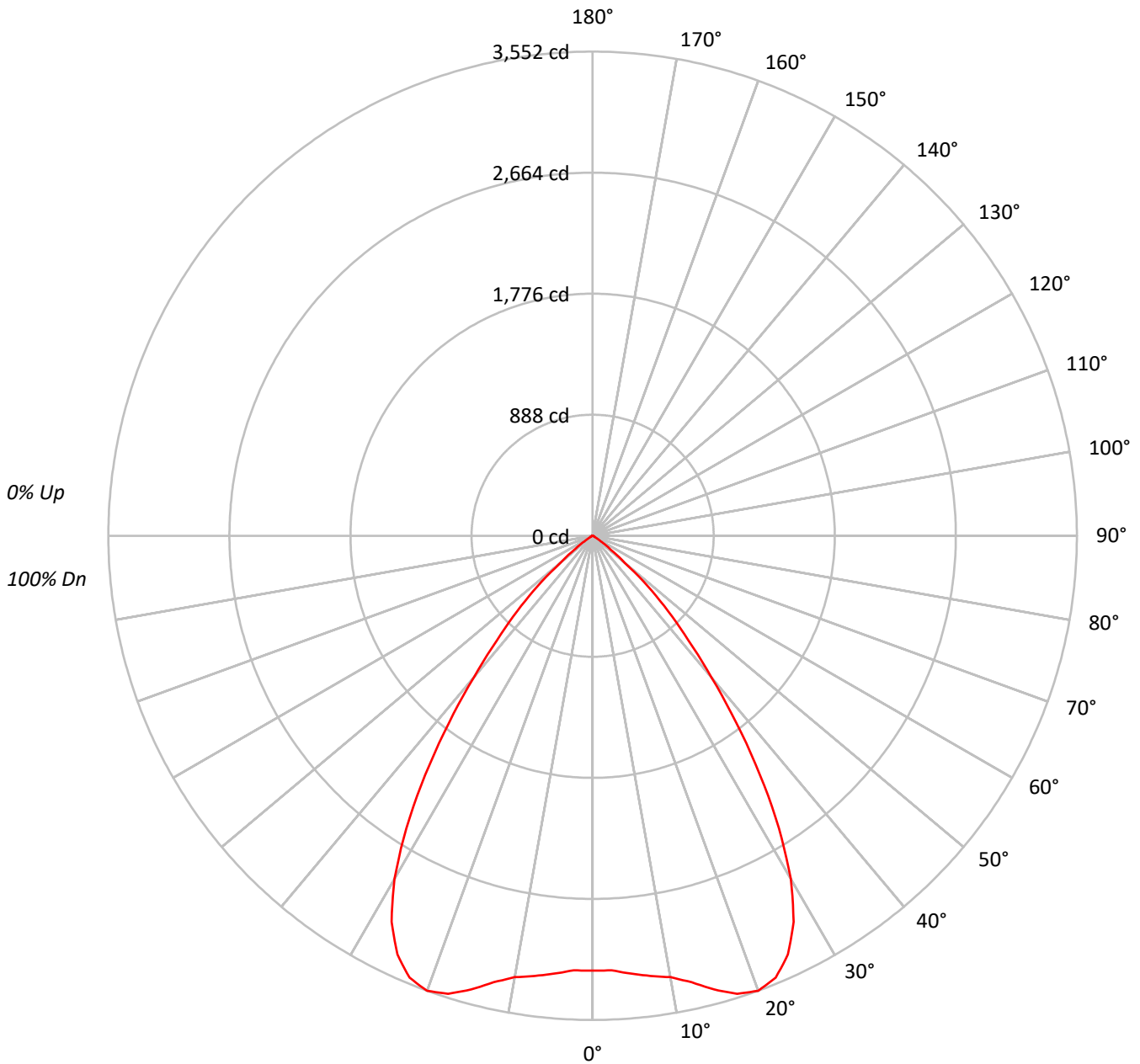
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581253

CATALOG NUMBER: HC455D010-HM44560940-41WDC

Luminous Intensity Polar Plot





TEST NUMBER: P581253

CATALOG NUMBER: HC455D010-HM44560940-41WDC

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	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85	85	85	85
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77	77	77	77
4	95	86	80	76	93	85	79	75	83	78	74	81	77	73	79	75	72	71	71	71	71
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65	65	65	65
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	65	61	60	60	60	60
7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55	55	55	55
8	75	64	57	53	73	63	57	53	62	57	53	61	56	52	60	56	52	51	51	51	51
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47	47	47	47
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43	43	43	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	393534
5°	399297
10°	411817
15°	440043
20°	466281
25°	461178
30°	413922
35°	322145
40°	218241
45°	136253
50°	58949
55°	19763
60°	4958
65°	3356
70°	2056
75°	1382
80°	2060
85°	0



TEST NUMBER: P581253

CATALOG NUMBER: HC455D010-HM44560940-41WDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.8	6.4
10°-20°	978.2	20.1
20°-30°	1532.7	31.5
30°-40°	1322.8	27.2
40°-50°	608.3	12.5
50°-60°	103.3	2.1
60°-70°	11.7	0.2
70°-80°	4.2	0.1
80°-90°	0.4	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°	2820.7	57.9
0°-40°	4143.5	85.1
0°-60°	4855.1	99.7
0°-90°	4871.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4871.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3190	
5°	3225	310
15°	3446	978
25°	3389	1533
35°	2139	1323
45°	781	608
55°	92	103
65°	12	12
75°	3	4
85°	0	0
90°	0	



TEST NUMBER: P581253

CATALOG NUMBER: HC455D010-HM44560940-41WDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	3190.5
2.5°	3190.5
5°	3224.9
7.5°	3256.5
10°	3288.0
12.5°	3354.2
15°	3446.0
17.5°	3523.6
20°	3552.3
22.5°	3509.2
25°	3388.6
27.5°	3193.3
30°	2906.2
32.5°	2544.3
35°	2139.4
37.5°	1731.6
40°	1355.4
42.5°	1036.7
45°	781.1
47.5°	548.6
50°	307.2
52.5°	169.4
55°	91.9
57.5°	45.9
60°	20.1
62.5°	14.4
65°	11.5
67.5°	8.7
70°	5.7
72.5°	5.7
75°	2.9
77.5°	2.9
80°	2.9
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)