

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: P585030

Luminaire Tested: **HC855D010-HM82555935-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585030
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC855D010-HM82555935-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5772.8 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

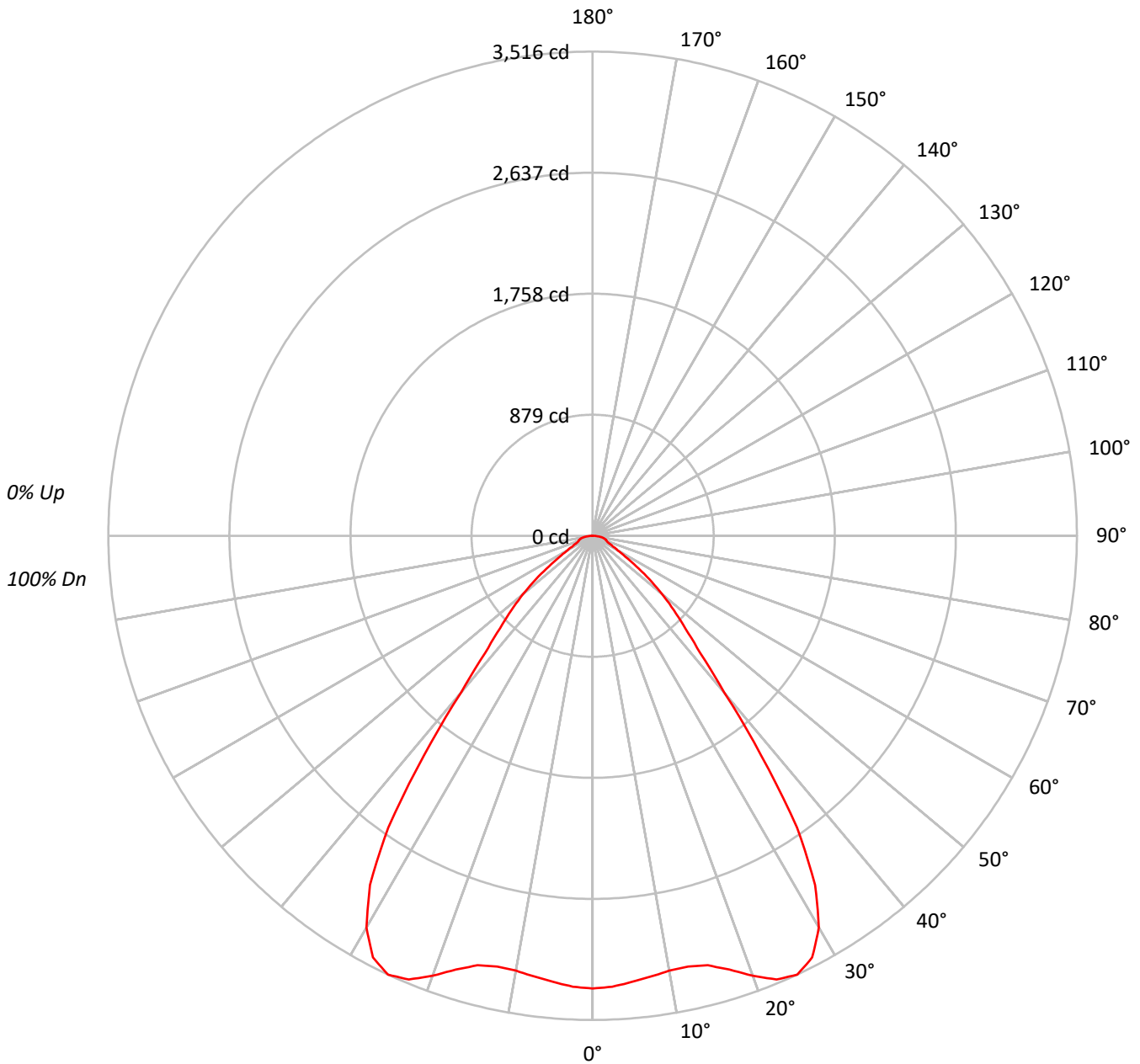
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P585030

CATALOG NUMBER: HC855D010-HM82555935-81WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P585030

CATALOG NUMBER: HC855D010-HM82555935-81WDWB

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	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			65
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	101384
5°	100688
10°	100424
15°	103061
20°	111572
25°	119615
30°	116943
35°	97378
40°	59825
45°	41424
50°	31614
55°	20730
60°	12970
65°	9712
70°	9791
75°	11271
80°	12448
85°	11145



TEST NUMBER: P585030

CATALOG NUMBER: HC855D010-HM82555935-81WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.1	5.4
10°-20°	926.7	16.1
20°-30°	1595.3	27.6
30°-40°	1545.7	26.8
40°-50°	761.3	13.2
50°-60°	359.3	6.2
60°-70°	141.6	2.5
70°-80°	97.6	1.7
80°-90°	36.3	0.6
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°	2831.1	49.0
0°-40°	4376.8	75.8
0°-60°	5497.4	95.2
0°-90°	5772.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5772.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3288	
5°	3253	309
15°	3228	927
25°	3516	1595
35°	2587	1546
45°	950	761
55°	386	359
65°	133	142
75°	95	98
85°	32	36
90°	0	



TEST NUMBER: P585030

CATALOG NUMBER: HC855D010-HM82555935-81WDWB

CANDELA DISTRIBUTION (FULL):

	0°
0°	3287.8
2.5°	3277.3
5°	3252.8
7.5°	3228.3
10°	3207.2
12.5°	3203.7
15°	3228.3
17.5°	3301.9
20°	3400.0
22.5°	3487.6
25°	3515.6
27.5°	3452.6
30°	3284.3
32.5°	3007.5
35°	2586.8
37.5°	2008.5
40°	1486.2
42.5°	1153.2
45°	949.9
47.5°	799.2
50°	659.0
52.5°	518.7
55°	385.6
57.5°	280.5
60°	210.3
62.5°	164.8
65°	133.1
67.5°	115.7
70°	108.6
72.5°	101.6
75°	94.6
77.5°	84.1
80°	70.1
82.5°	52.6
85°	31.5
87.5°	14.1
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)