

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: P584894

Luminaire Tested: **HC850D010-HM82555935-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584894
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: HC850D010-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: 5514.9 lumens
Efficiency: N/A
Efficacy: 114.9 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

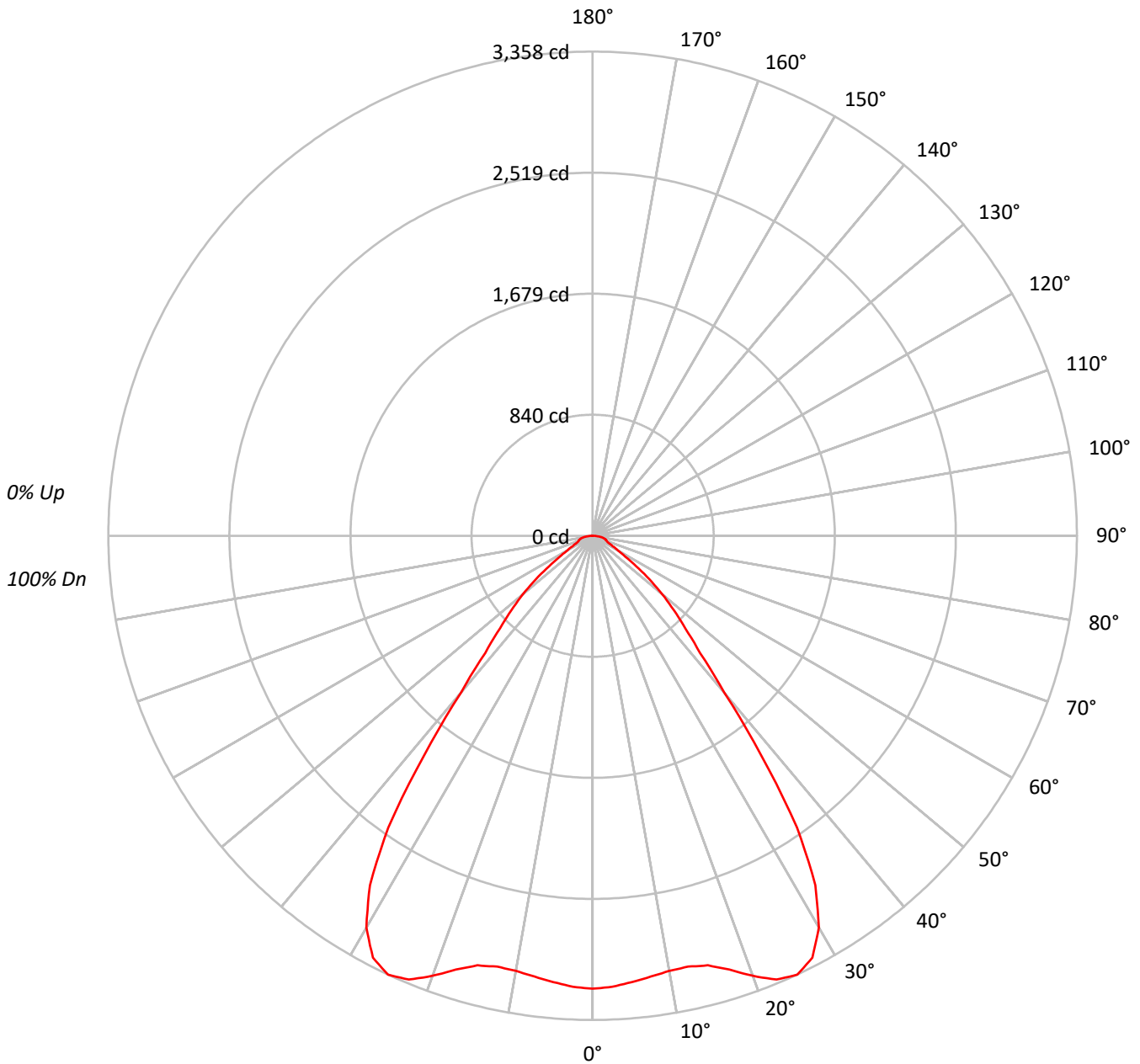
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	96857
5°	96187
10°	95937
15°	98457
20°	106587
25°	114270
30°	111720
35°	93030
40°	57153
45°	39575
50°	30199
55°	19806
60°	12396
65°	9281
70°	9359
75°	10770
80°	11898
85°	10685



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.3	5.4
10°-20°	885.3	16.1
20°-30°	1524.1	27.6
30°-40°	1476.6	26.8
40°-50°	727.3	13.2
50°-60°	343.2	6.2
60°-70°	135.2	2.5
70°-80°	93.3	1.7
80°-90°	34.7	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°	2704.6	49.0
0°-40°	4181.2	75.8
0°-60°	5251.8	95.2
0°-90°	5514.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5514.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3141	
5°	3107	295
15°	3084	885
25°	3358	1524
35°	2471	1477
45°	908	727
55°	368	343
65°	127	135
75°	90	93
85°	30	35
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3141.0
2.5°	3130.9
5°	3107.4
7.5°	3084.1
10°	3063.9
12.5°	3060.6
15°	3084.1
17.5°	3154.3
20°	3248.1
22.5°	3331.8
25°	3358.5
27.5°	3298.3
30°	3137.6
32.5°	2873.1
35°	2471.3
37.5°	1918.7
40°	1419.8
42.5°	1101.7
45°	907.5
47.5°	763.5
50°	629.5
52.5°	495.5
55°	368.4
57.5°	267.9
60°	201.0
62.5°	157.3
65°	127.2
67.5°	110.5
70°	103.8
72.5°	97.1
75°	90.4
77.5°	80.3
80°	67.0
82.5°	50.3
85°	30.2
87.5°	13.4
90°	0.0



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— 0°-180°







(END OF REPORT)