

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: P584851

Luminaire Tested: **HC850D010-HM82555927-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC850D010-HM82555927-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3786.9 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

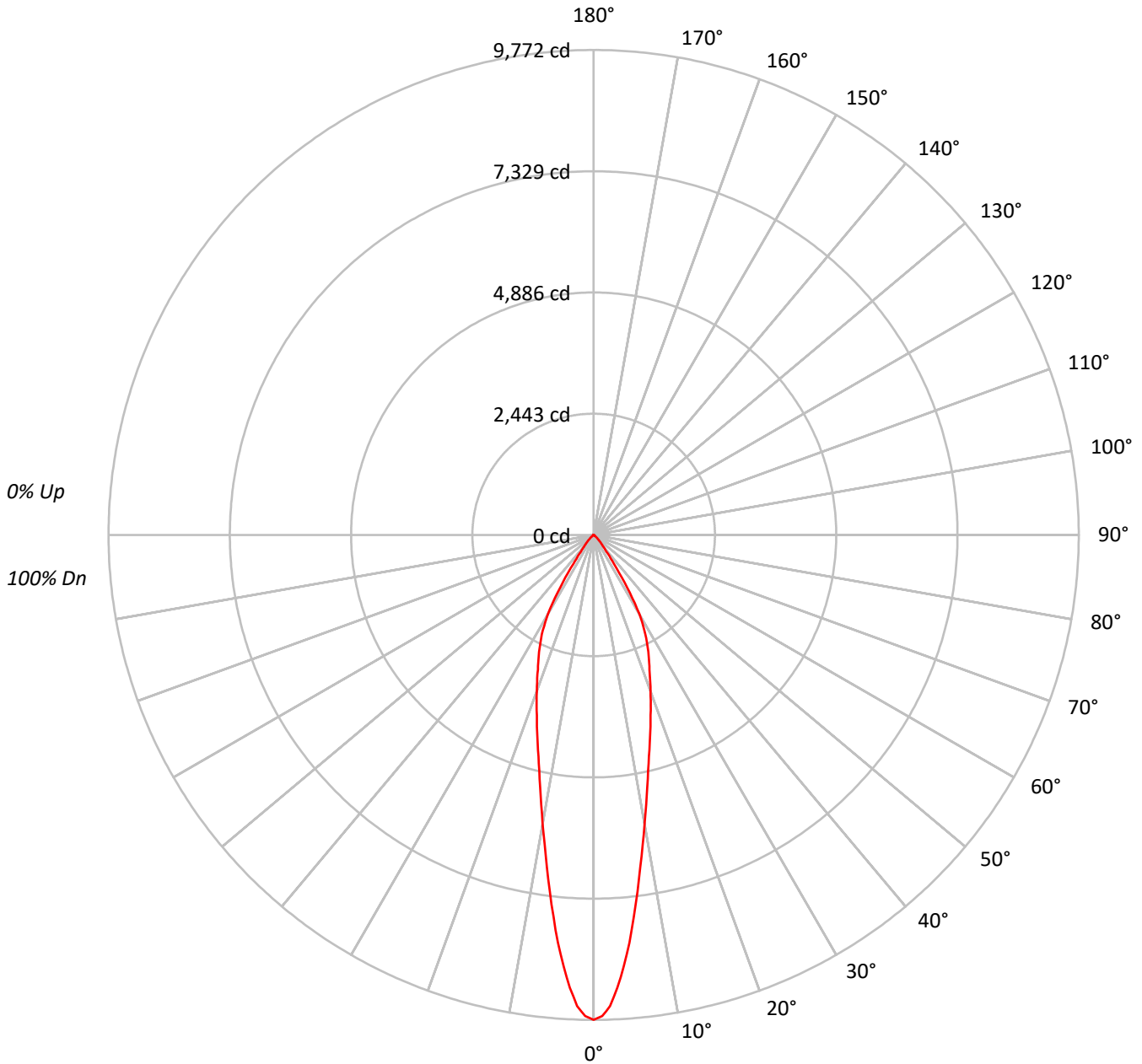
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584851

CATALOG NUMBER: HC850D010-HM82555927-81NDH

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	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95			95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89			89
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84			84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80			80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75			75
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72			72
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68			68
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65			65
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62			62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59			59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	301326
5°	255288
10°	185223
15°	139097
20°	109751
25°	88524
30°	65605
35°	26581
40°	11211
45°	6009
50°	2696
55°	1366
60°	863
65°	613
70°	505
75°	334
80°	497
85°	991



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.1	18.7
10°-20°	1223.8	32.3
20°-30°	1183.2	31.2
30°-40°	519.7	13.7
40°-50°	112.3	3.0
50°-60°	25.2	0.7
60°-70°	8.6	0.2
70°-80°	3.3	0.1
80°-90°	2.7	0.1
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°	3115.0	82.3
0°-40°	3634.7	96.0
0°-60°	3772.3	99.6
0°-90°	3786.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3786.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9772	
5°	8247	708
15°	4357	1224
25°	2602	1183
35°	706	520
45°	138	112
55°	25	25
65°	8	9
75°	3	3
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9771.8
1°	9698.7
2°	9498.9
3°	9138.9
4°	8708.6
5°	8247.3
6°	7743.8
7°	7237.5
8°	6762.1
9°	6320.4
10°	5915.4
11°	5532.9
12°	5189.7
13°	4877.4
14°	4601.8
15°	4357.1
17.5°	3808.6
20°	3344.5
22.5°	2936.6
25°	2601.8
27.5°	2261.5
30°	1842.5
32.5°	1251.8
35°	706.1
37.5°	416.3
40°	278.5
42.5°	196.9
45°	137.8
47.5°	90.0
50°	56.2
52.5°	33.8
55°	25.4
57.5°	19.6
60°	14.0
62.5°	11.2
65°	8.4
67.5°	5.6
70°	5.6
72.5°	2.8
75°	2.8
77.5°	2.8
80°	2.8
82.5°	2.8



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	2.8
87.5°	2.8



(END OF REPORT)