

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: P584451

Luminaire Tested: **HC835D010-HM82555927-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC835D010-HM82555927-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3306.9 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

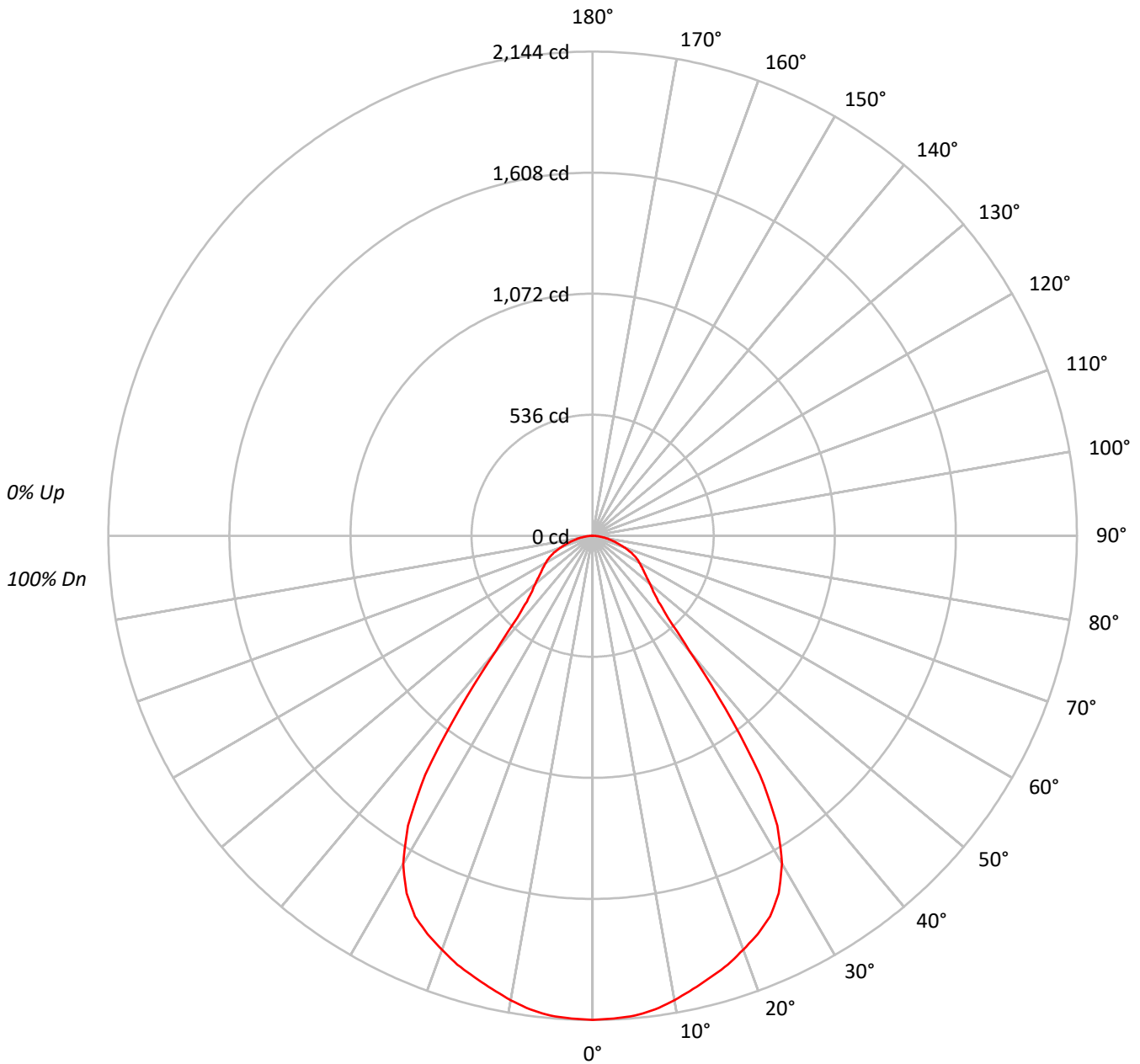
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	66110
5°	66031
10°	65379
15°	64595
20°	63996
25°	63278
30°	59705
35°	48621
40°	26861
45°	17932
50°	15903
55°	14930
60°	14734
65°	14608
70°	13199
75°	11807
80°	10317
85°	9164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.2	6.1
10°-20°	571.3	17.3
20°-30°	848.9	25.7
30°-40°	764.5	23.1
40°-50°	339.0	10.2
50°-60°	251.0	7.6
60°-70°	195.2	5.9
70°-80°	105.9	3.2
80°-90°	29.0	0.9
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°	1622.4	49.1
0°-40°	2386.9	72.2
0°-60°	2976.9	90.0
0°-90°	3306.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3306.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2144	
5°	2133	202
15°	2023	571
25°	1860	849
35°	1292	765
45°	411	339
55°	278	251
65°	200	195
75°	99	106
85°	26	29
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2143.9
2.5°	2139.6
5°	2133.2
7.5°	2115.9
10°	2088.0
12.5°	2055.6
15°	2023.4
17.5°	1991.1
20°	1950.2
22.5°	1909.3
25°	1859.8
27.5°	1784.4
30°	1676.8
32.5°	1521.8
35°	1291.6
37.5°	964.4
40°	667.3
42.5°	493.0
45°	411.2
47.5°	363.8
50°	331.5
52.5°	301.3
55°	277.7
57.5°	258.3
60°	238.9
62.5°	221.7
65°	200.2
67.5°	174.3
70°	146.4
72.5°	122.7
75°	99.1
77.5°	77.5
80°	58.1
82.5°	40.9
85°	25.9
87.5°	10.8
90°	0.0



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— 0°-180°







(END OF REPORT)