

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: P584452

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584452
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: HC835D010-HM82555927-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3545.7 lumens
Efficiency: N/A
Efficacy: 105.2 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

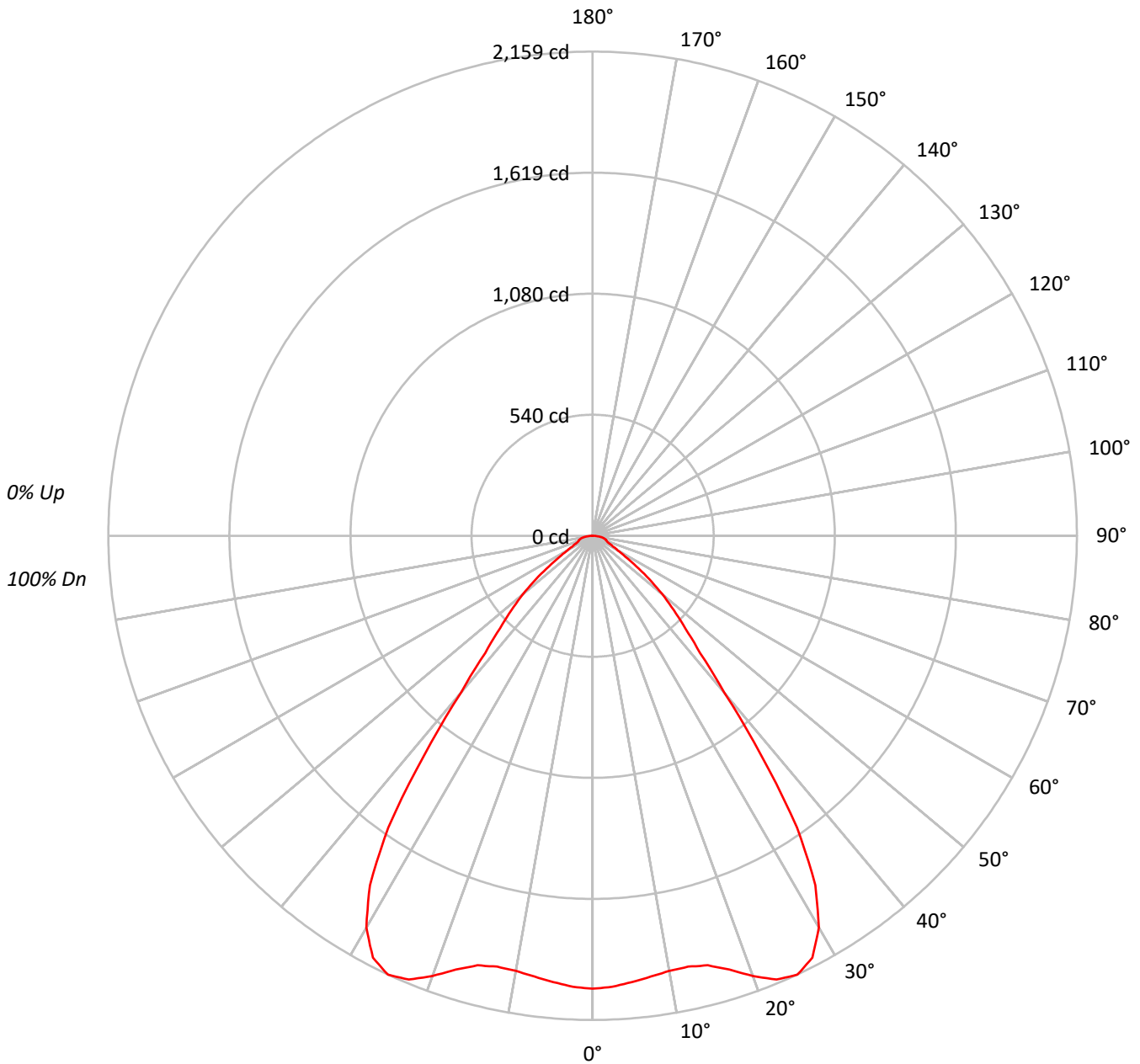
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	62274
5°	61843
10°	61685
15°	63299
20°	68532
25°	73472
30°	71829
35°	59813
40°	36748
45°	25442
50°	19419
55°	12731
60°	7962
65°	5969
70°	6014
75°	6922
80°	7636
85°	6864



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.8	5.4
10°-20°	569.2	16.1
20°-30°	979.9	27.6
30°-40°	949.4	26.8
40°-50°	467.6	13.2
50°-60°	220.7	6.2
60°-70°	86.9	2.5
70°-80°	59.9	1.7
80°-90°	22.3	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°	1738.9	49.0
0°-40°	2688.3	75.8
0°-60°	3376.6	95.2
0°-90°	3545.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3545.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2020	
5°	1998	190
15°	1983	569
25°	2159	980
35°	1589	949
45°	583	468
55°	237	221
65°	82	87
75°	58	60
85°	19	22
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2019.5
2.5°	2013.0
5°	1997.9
7.5°	1982.8
10°	1970.0
12.5°	1967.8
15°	1982.8
17.5°	2028.1
20°	2088.4
22.5°	2142.1
25°	2159.4
27.5°	2120.7
30°	2017.3
32.5°	1847.2
35°	1588.9
37.5°	1233.6
40°	912.9
42.5°	708.3
45°	583.4
47.5°	490.8
50°	404.8
52.5°	318.7
55°	236.8
57.5°	172.3
60°	129.1
62.5°	101.2
65°	81.8
67.5°	71.0
70°	66.7
72.5°	62.4
75°	58.1
77.5°	51.6
80°	43.0
82.5°	32.3
85°	19.4
87.5°	8.6
90°	0.0



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— 0°-180°







(END OF REPORT)