

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: P583742

Luminaire Tested: **HC810D010-HM80520835-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583742
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: HC810D010-HM80520835-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1327.1 lumens
Efficiency: N/A
Efficacy: 134.0 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

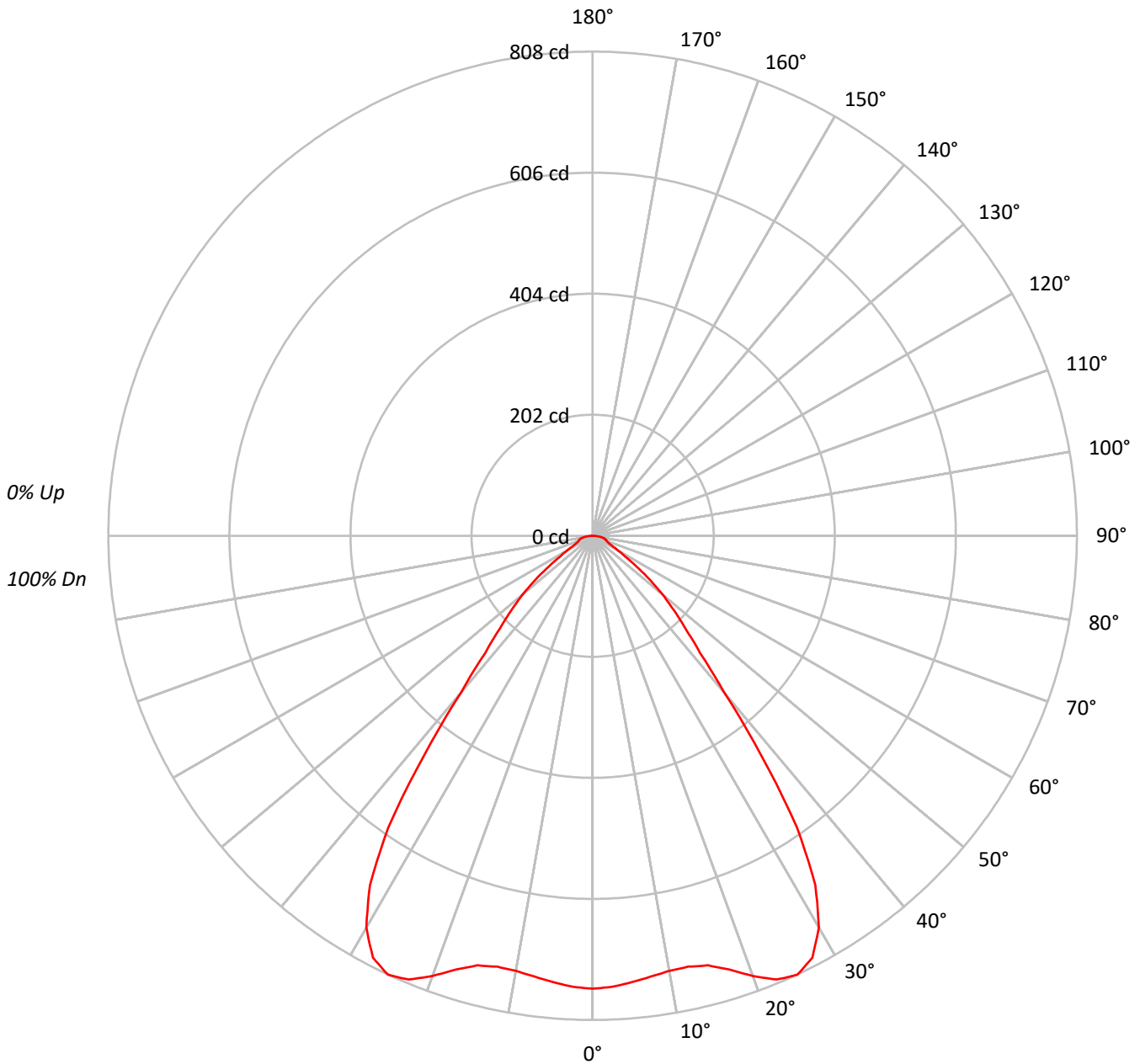
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
RC	80									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	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°	23306
5°	23147
10°	23086
15°	23691
20°	25652
25°	27498
30°	26883
35°	22383
40°	13751
45°	9524
50°	7268
55°	4763
60°	2979
65°	2240
70°	2254
75°	2597
80°	2859
85°	2547



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	5.4
10°-20°	213.0	16.1
20°-30°	366.7	27.6
30°-40°	355.3	26.8
40°-50°	175.0	13.2
50°-60°	82.5	6.2
60°-70°	32.6	2.5
70°-80°	22.5	1.7
80°-90°	8.3	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°	650.8	49.0
0°-40°	1006.2	75.8
0°-60°	1263.7	95.2
0°-90°	1327.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1327.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	756	
5°	748	71
15°	742	213
25°	808	367
35°	595	355
45°	218	175
55°	89	83
65°	31	33
75°	22	22
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	755.8
2.5°	753.4
5°	747.8
7.5°	742.1
10°	737.3
12.5°	736.5
15°	742.1
17.5°	759.1
20°	781.7
22.5°	801.7
25°	808.2
27.5°	793.7
30°	755.0
32.5°	691.4
35°	594.6
37.5°	461.7
40°	341.6
42.5°	265.2
45°	218.4
47.5°	183.7
50°	151.5
52.5°	119.2
55°	88.6
57.5°	64.4
60°	48.3
62.5°	37.9
65°	30.7
67.5°	26.6
70°	25.0
72.5°	23.3
75°	21.8
77.5°	19.4
80°	16.1
82.5°	12.1
85°	7.2
87.5°	3.2
90°	0.0



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— 0°-180°







(END OF REPORT)