

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: P583861

Luminaire Tested: **HC815D010-HM80520830-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583861
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: HC815D010-HM80520830-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1751.1 lumens
Efficiency: N/A
Efficacy: 125.1 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

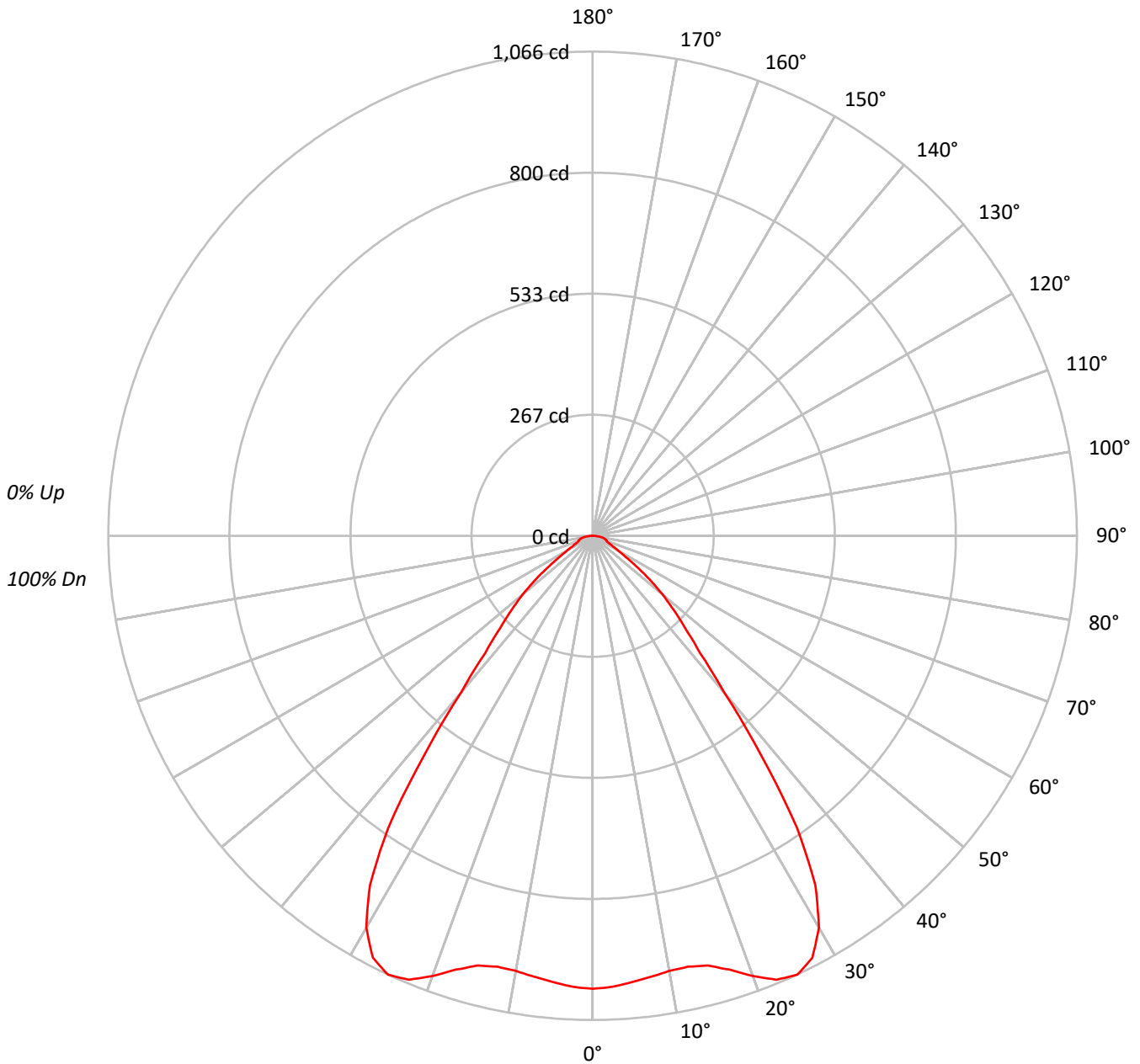
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	30756
5°	30542
10°	30463
15°	31263
20°	33846
25°	36283
30°	35475
35°	29539
40°	18146
45°	12564
50°	9590
55°	6290
60°	3929
65°	2948
70°	2975
75°	3419
80°	3765
85°	3361



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.8	5.4
10°-20°	281.1	16.1
20°-30°	483.9	27.6
30°-40°	468.9	26.8
40°-50°	230.9	13.2
50°-60°	109.0	6.2
60°-70°	42.9	2.5
70°-80°	29.6	1.7
80°-90°	10.9	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°	858.8	49.0
0°-40°	1327.7	75.8
0°-60°	1667.6	95.2
0°-90°	1751.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1751.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	997	
5°	987	94
15°	979	281
25°	1066	484
35°	785	469
45°	288	231
55°	117	109
65°	40	43
75°	29	30
85°	10	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	997.4
2.5°	994.1
5°	986.7
7.5°	979.3
10°	972.9
12.5°	971.8
15°	979.3
17.5°	1001.6
20°	1031.4
22.5°	1057.9
25°	1066.4
27.5°	1047.3
30°	996.3
32.5°	912.3
35°	784.7
37.5°	609.2
40°	450.8
42.5°	349.8
45°	288.1
47.5°	242.4
50°	199.9
52.5°	157.4
55°	117.0
57.5°	85.1
60°	63.7
62.5°	50.0
65°	40.4
67.5°	35.1
70°	33.0
72.5°	30.8
75°	28.7
77.5°	25.5
80°	21.2
82.5°	15.9
85°	9.5
87.5°	4.2
90°	0.0



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— 0°-180°







(END OF REPORT)