

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: P583874

Luminaire Tested: **HC815D010-HM80520835-81WDBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC815D010-HM80520835-81WDBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1656.9 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

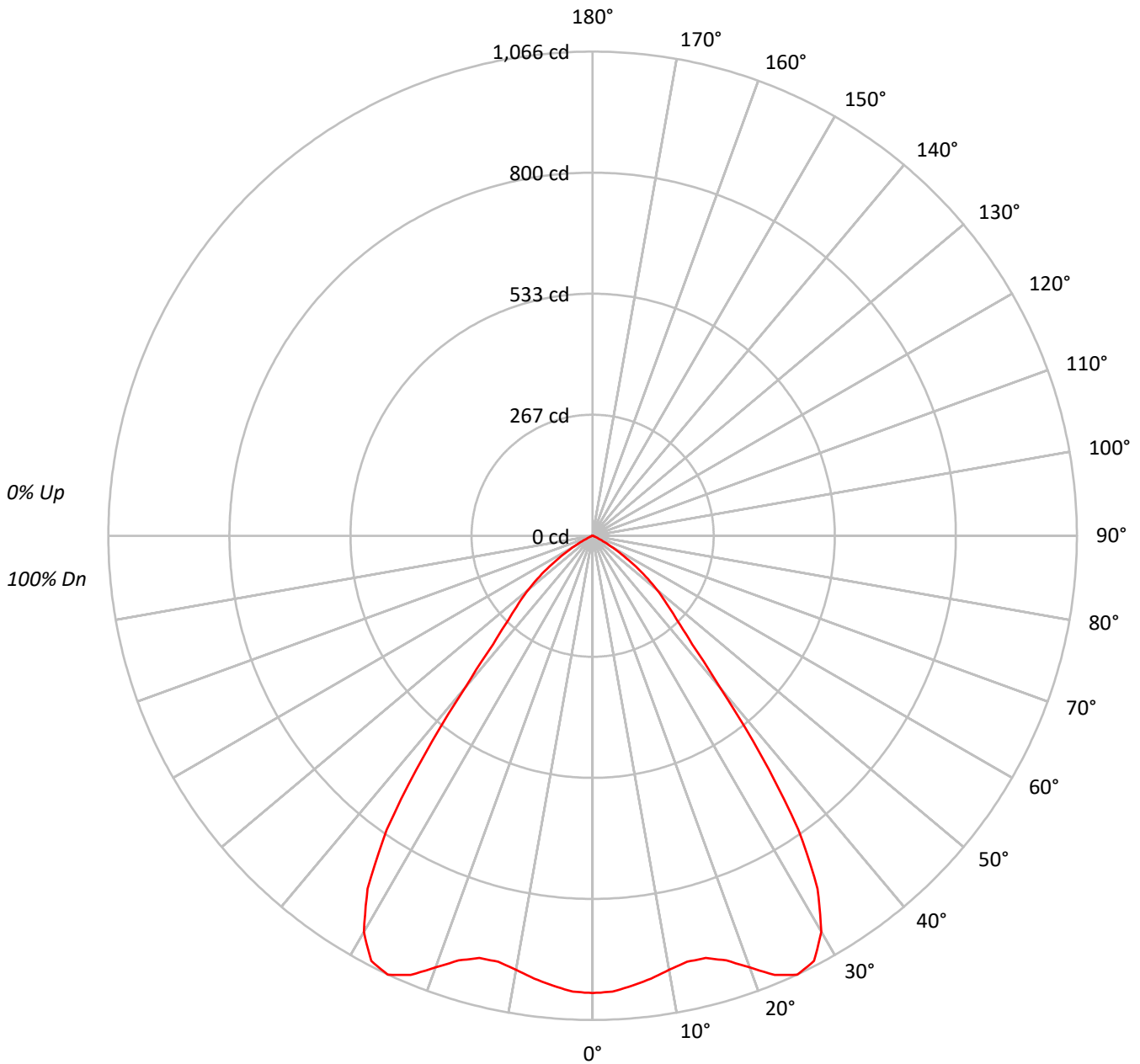
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68			
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	31046
5°	30787
10°	30382
15°	30730
20°	33183
25°	36287
30°	35849
35°	29735
40°	17502
45°	11434
50°	8861
55°	5887
60°	2868
65°	890
70°	307
75°	262
80°	195
85°	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.2	5.7
10°-20°	276.5	16.7
20°-30°	483.5	29.2
30°-40°	470.3	28.4
40°-50°	213.8	12.9
50°-60°	99.1	6.0
60°-70°	16.6	1.0
70°-80°	2.0	0.1
80°-90°	0.7	0.0
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°	854.2	51.6
0°-40°	1324.5	79.9
0°-60°	1637.5	98.8
0°-90°	1656.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1656.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1007	
5°	995	94
15°	963	277
25°	1066	483
35°	790	470
45°	262	214
55°	110	99
65°	12	17
75°	2	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1006.8
2.5°	1004.5
5°	994.6
7.5°	983.5
10°	970.3
12.5°	960.3
15°	962.6
17.5°	980.1
20°	1011.2
22.5°	1046.5
25°	1066.5
27.5°	1055.5
30°	1006.8
32.5°	921.6
35°	789.9
37.5°	608.5
40°	434.8
42.5°	324.1
45°	262.2
47.5°	221.2
50°	184.7
52.5°	147.1
55°	109.5
57.5°	75.2
60°	46.5
62.5°	25.4
65°	12.2
67.5°	5.5
70°	3.4
72.5°	2.2
75°	2.2
77.5°	1.1
80°	1.1
82.5°	1.1
85°	1.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)