

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: P583860

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583860
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: HC815D010-HM80520830-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

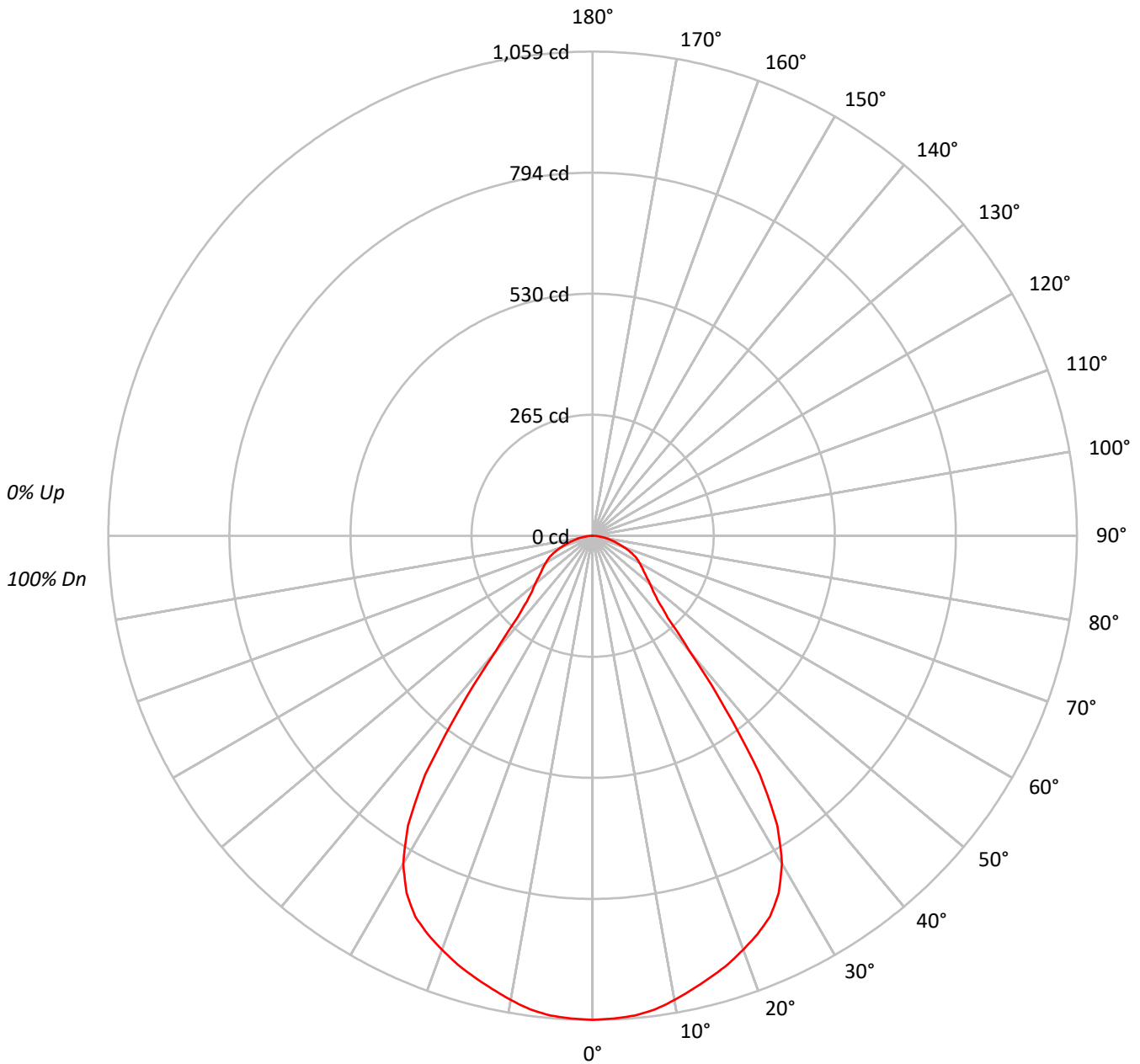
Lumens per Lamp: N/A
Luminaire Lumens: 1633.1 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89		
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79		
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70		
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63		
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57		
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52		
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48		
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44		
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	32649
5°	32610
10°	32286
15°	31902
20°	31608
25°	31251
30°	29486
35°	24009
40°	13268
45°	8853
50°	7858
55°	7371
60°	7277
65°	7209
70°	6519
75°	5826
80°	5097
85°	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.8	6.1
10°-20°	282.2	17.3
20°-30°	419.2	25.7
30°-40°	377.6	23.1
40°-50°	167.4	10.2
50°-60°	124.0	7.6
60°-70°	96.4	5.9
70°-80°	52.3	3.2
80°-90°	14.3	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°	801.2	49.1
0°-40°	1178.8	72.2
0°-60°	1470.1	90.0
0°-90°	1633.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1633.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1059	
5°	1054	100
15°	999	282
25°	918	419
35°	638	378
45°	203	167
55°	137	124
65°	99	96
75°	49	52
85°	13	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1058.8
2.5°	1056.7
5°	1053.5
7.5°	1045.0
10°	1031.1
12.5°	1015.2
15°	999.3
17.5°	983.3
20°	963.2
22.5°	942.9
25°	918.5
27.5°	881.2
30°	828.1
32.5°	751.6
35°	637.8
37.5°	476.2
40°	329.6
42.5°	243.4
45°	203.0
47.5°	179.7
50°	163.8
52.5°	148.8
55°	137.1
57.5°	127.6
60°	118.0
62.5°	109.5
65°	98.8
67.5°	86.2
70°	72.3
72.5°	60.6
75°	48.9
77.5°	38.3
80°	28.7
82.5°	20.2
85°	12.8
87.5°	5.3
90°	0.0



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— 0°-180°







(END OF REPORT)