

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: P583877

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583877
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-HM80520835-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1699.0 lumens
Efficiency: N/A
Efficacy: 121.4 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

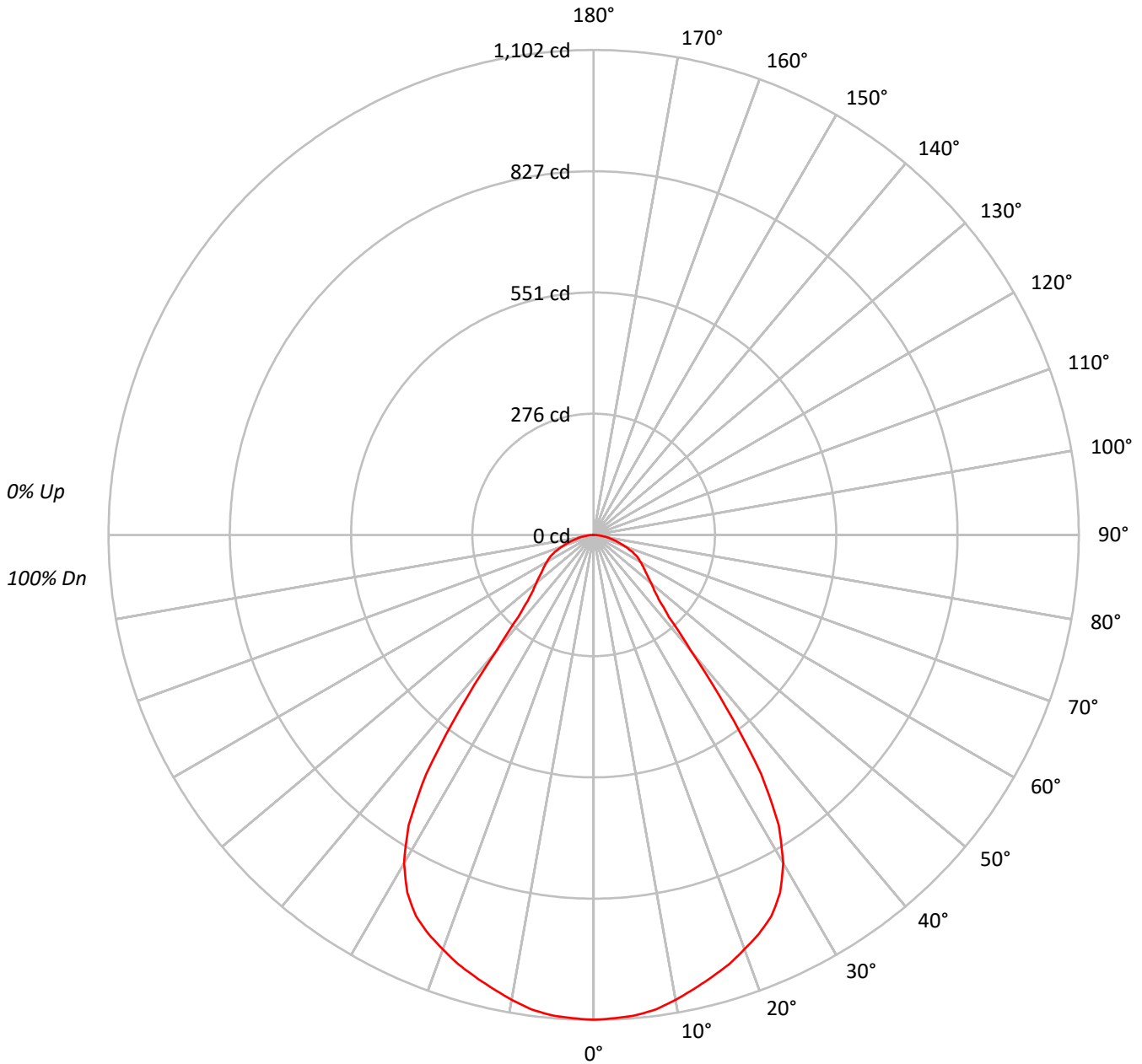
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	33966
5°	33923
10°	33588
15°	33188
20°	32881
25°	32513
30°	30675
35°	24981
40°	13799
45°	9210
50°	8170
55°	7672
60°	7573
65°	7508
70°	6780
75°	6064
80°	5310
85°	4706



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.9	6.1
10°-20°	293.5	17.3
20°-30°	436.2	25.7
30°-40°	392.8	23.1
40°-50°	174.1	10.2
50°-60°	129.0	7.6
60°-70°	100.3	5.9
70°-80°	54.4	3.2
80°-90°	14.9	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°	833.6	49.1
0°-40°	1226.4	72.2
0°-60°	1529.5	90.0
0°-90°	1699.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1699.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1102	
5°	1096	104
15°	1040	294
25°	956	436
35°	664	393
45°	211	174
55°	143	129
65°	103	100
75°	51	54
85°	13	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1101.5
2.5°	1099.3
5°	1095.9
7.5°	1087.2
10°	1072.7
12.5°	1056.2
15°	1039.6
17.5°	1022.9
20°	1002.0
22.5°	981.0
25°	955.6
27.5°	916.8
30°	861.5
32.5°	781.9
35°	663.6
37.5°	495.5
40°	342.8
42.5°	253.3
45°	211.2
47.5°	186.9
50°	170.3
52.5°	154.8
55°	142.7
57.5°	132.7
60°	122.8
62.5°	113.9
65°	102.9
67.5°	89.5
70°	75.2
72.5°	63.0
75°	50.9
77.5°	39.8
80°	29.9
82.5°	21.0
85°	13.3
87.5°	5.5
90°	0.0



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— 0°-180°







(END OF REPORT)