

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: P581697

Luminaire Tested: **HC615D010-HM60525827-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC615D010-HM60525827-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1369.1 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

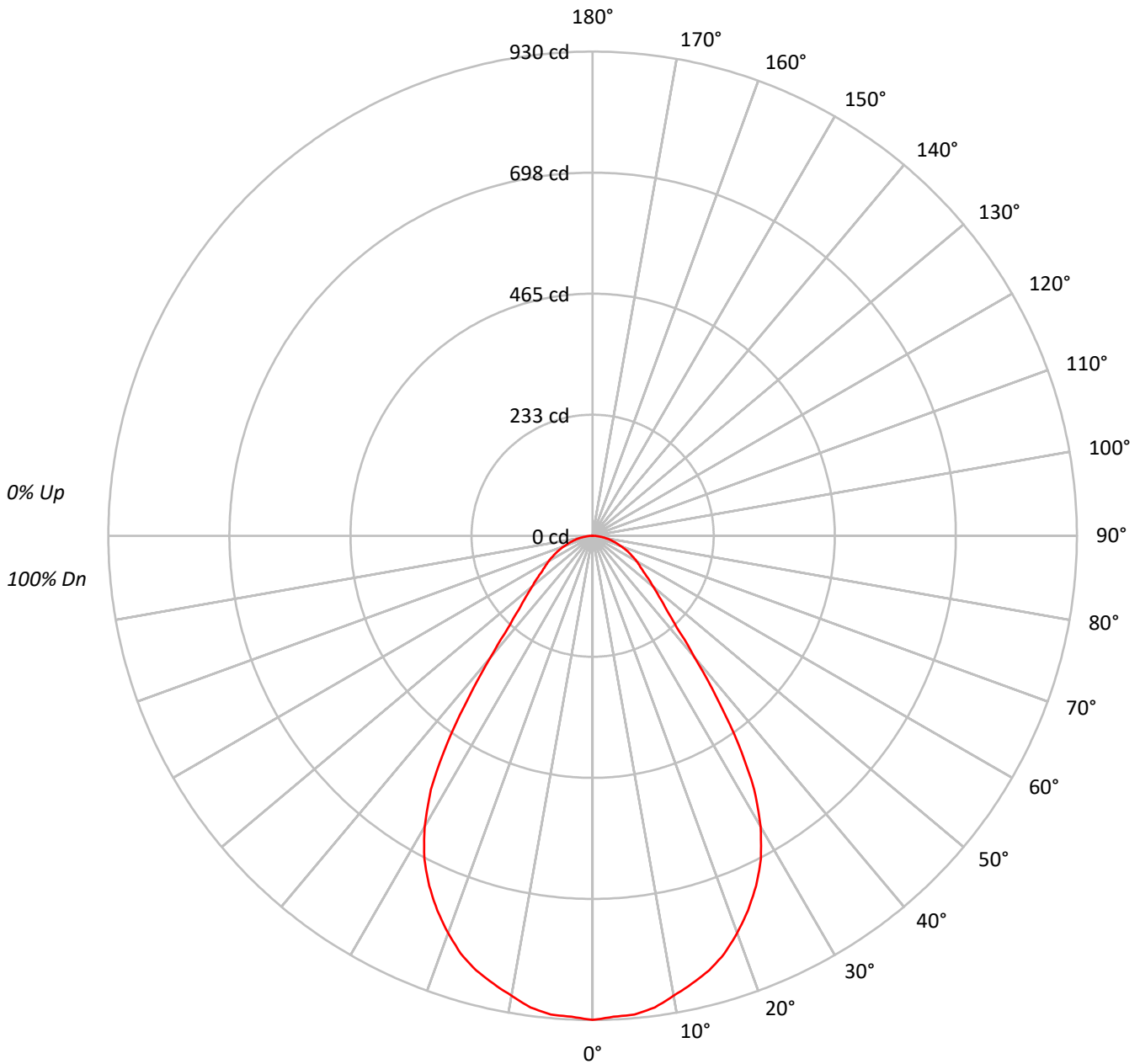
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	55	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°	50972
5°	50787
10°	49938
15°	49052
20°	47365
25°	44906
30°	40842
35°	32638
40°	21777
45°	15521
50°	12929
55°	11268
60°	10657
65°	10027
70°	9216
75°	8599
80°	7798
85°	6856



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.3	6.4
10°-20°	242.7	17.7
20°-30°	339.1	24.8
30°-40°	298.7	21.8
40°-50°	161.4	11.8
50°-60°	107.9	7.9
60°-70°	76.5	5.6
70°-80°	43.0	3.1
80°-90°	12.5	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°	669.1	48.9
0°-40°	967.8	70.7
0°-60°	1237.1	90.4
0°-90°	1369.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1369.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	930	
5°	923	87
15°	864	243
25°	742	339
35°	488	299
45°	200	161
55°	118	108
65°	77	77
75°	41	43
85°	11	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	929.8
2.5°	924.8
5°	922.9
7.5°	913.9
10°	897.1
12.5°	881.2
15°	864.3
17.5°	841.6
20°	811.9
22.5°	779.1
25°	742.4
27.5°	699.8
30°	645.2
32.5°	577.9
35°	487.7
37.5°	389.5
40°	304.3
42.5°	239.8
45°	200.2
47.5°	173.4
50°	151.6
52.5°	133.8
55°	117.9
57.5°	107.0
60°	97.2
62.5°	87.3
65°	77.3
67.5°	67.4
70°	57.5
72.5°	48.6
75°	40.6
77.5°	32.7
80°	24.7
82.5°	17.8
85°	10.9
87.5°	5.0
90°	0.0



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— 0°-180°







(END OF REPORT)