

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: P593110

Luminaire Tested: **HC615D010-HM60525950-61WDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC615D010-HM60525950-61WDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1441.0 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

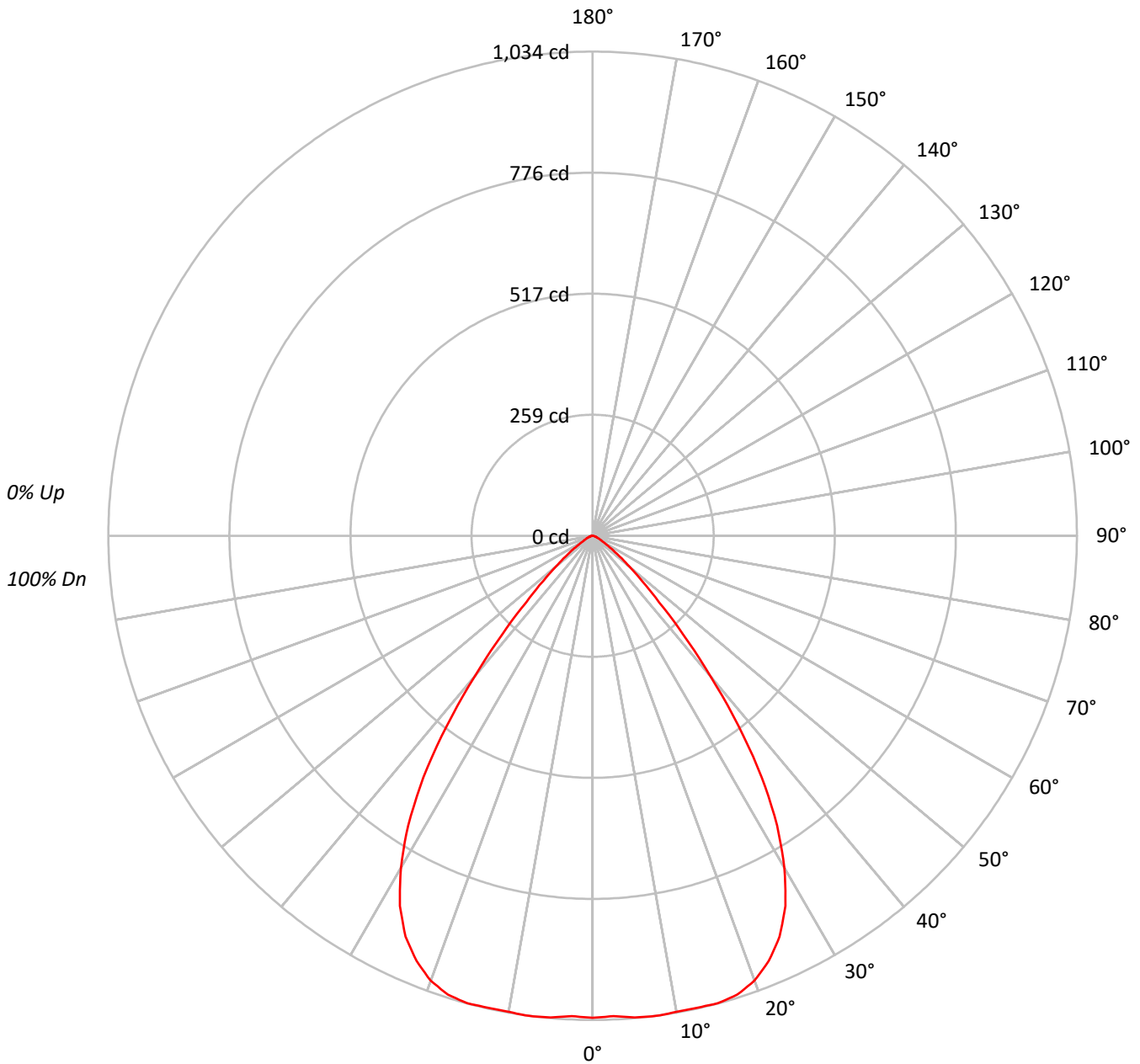
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	113	110	107	105	110	108	105	103	103	101	100	100	98	97	96	95	94	92			92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84			84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	80	84	81	78	77			77
4	94	86	79	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70			70
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64			64
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59			59
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54			54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	51	50			50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46			46
10	66	56	49	45	65	55	49	45	54	49	45	53	48	45	53	48	44	43			43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	56432
5°	56813
10°	57469
15°	58650
20°	58974
25°	57142
30°	51837
35°	42148
40°	27974
45°	15568
50°	8733
55°	4846
60°	2675
65°	2011
70°	1394
75°	1038
80°	600
85°	629



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	6.8
10°-20°	291.4	20.2
20°-30°	429.5	29.8
30°-40°	384.1	26.7
40°-50°	166.7	11.6
50°-60°	49.0	3.4
60°-70°	15.6	1.1
70°-80°	5.5	0.4
80°-90°	0.8	0.1
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°	819.4	56.9
0°-40°	1203.5	83.5
0°-60°	1419.1	98.5
0°-90°	1441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1441.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1029	
5°	1032	99
15°	1033	291
25°	945	429
35°	630	384
45°	201	167
55°	51	49
65°	16	16
75°	5	6
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1029.4
2.5°	1026.6
5°	1032.4
7.5°	1034.3
10°	1032.4
12.5°	1032.4
15°	1033.4
17.5°	1027.5
20°	1010.9
22.5°	982.7
25°	944.7
27.5°	891.1
30°	818.9
32.5°	733.1
35°	629.8
37.5°	511.8
40°	390.9
42.5°	285.7
45°	200.8
47.5°	143.4
50°	102.4
52.5°	73.1
55°	50.7
57.5°	34.2
60°	24.4
62.5°	19.5
65°	15.5
67.5°	11.7
70°	8.7
72.5°	6.8
75°	4.9
77.5°	3.9
80°	1.9
82.5°	1.0
85°	1.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)