

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: P593107

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593107
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC615D010-HM60525950-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1532.7 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

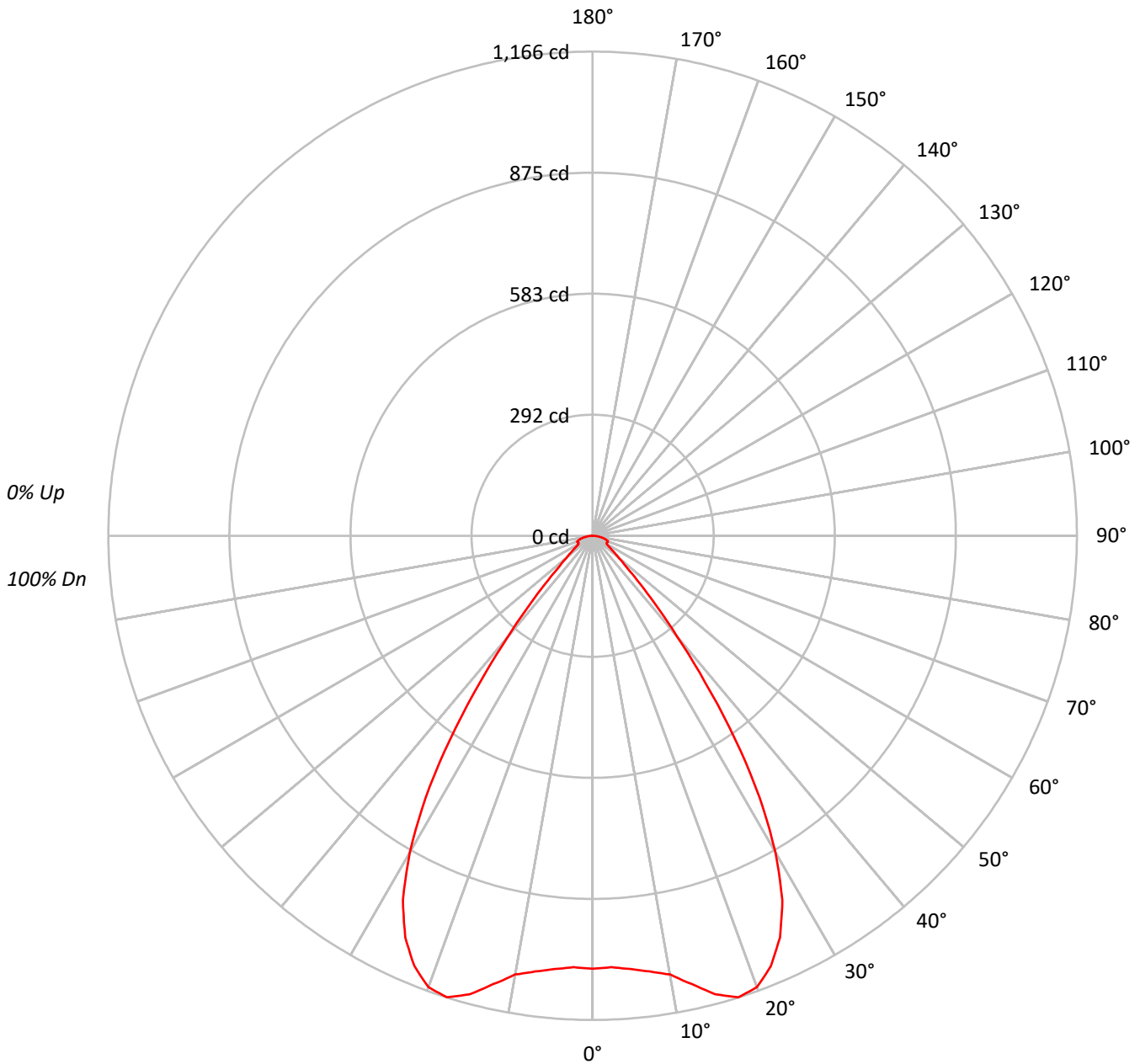
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63			
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54			
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46			
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	57161
5°	57649
10°	59724
15°	64876
20°	67486
25°	64546
30°	55705
35°	40107
40°	22599
45°	11714
50°	6976
55°	5037
60°	4265
65°	4929
70°	6235
75°	6608
80°	6440
85°	6164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	6.6
10°-20°	322.4	21.0
20°-30°	481.9	31.4
30°-40°	368.4	24.0
40°-50°	128.7	8.4
50°-60°	49.1	3.2
60°-70°	38.4	2.5
70°-80°	32.5	2.1
80°-90°	10.5	0.7
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°	905.1	59.1
0°-40°	1273.5	83.1
0°-60°	1451.2	94.7
0°-90°	1532.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1532.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1043	
5°	1048	101
15°	1143	322
25°	1067	482
35°	599	368
45°	151	129
55°	53	49
65°	38	38
75°	31	33
85°	10	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1042.7
2.5°	1039.8
5°	1047.6
7.5°	1058.3
10°	1072.9
12.5°	1106.1
15°	1143.1
17.5°	1165.5
20°	1156.8
22.5°	1121.6
25°	1067.1
27.5°	989.2
30°	880.0
32.5°	749.4
35°	599.3
37.5°	444.4
40°	315.8
42.5°	221.2
45°	151.1
47.5°	106.2
50°	81.8
52.5°	64.4
55°	52.7
57.5°	42.9
60°	38.9
62.5°	38.0
65°	38.0
67.5°	40.0
70°	38.9
72.5°	36.1
75°	31.2
77.5°	26.3
80°	20.4
82.5°	14.6
85°	9.8
87.5°	3.9
90°	0.0



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— 0°-180°







(END OF REPORT)