

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: P581744

Luminaire Tested: **HC615D010-HM60525835-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581744
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-HM60525835-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1704.3 lumens
Efficiency: N/A
Efficacy: 121.7 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

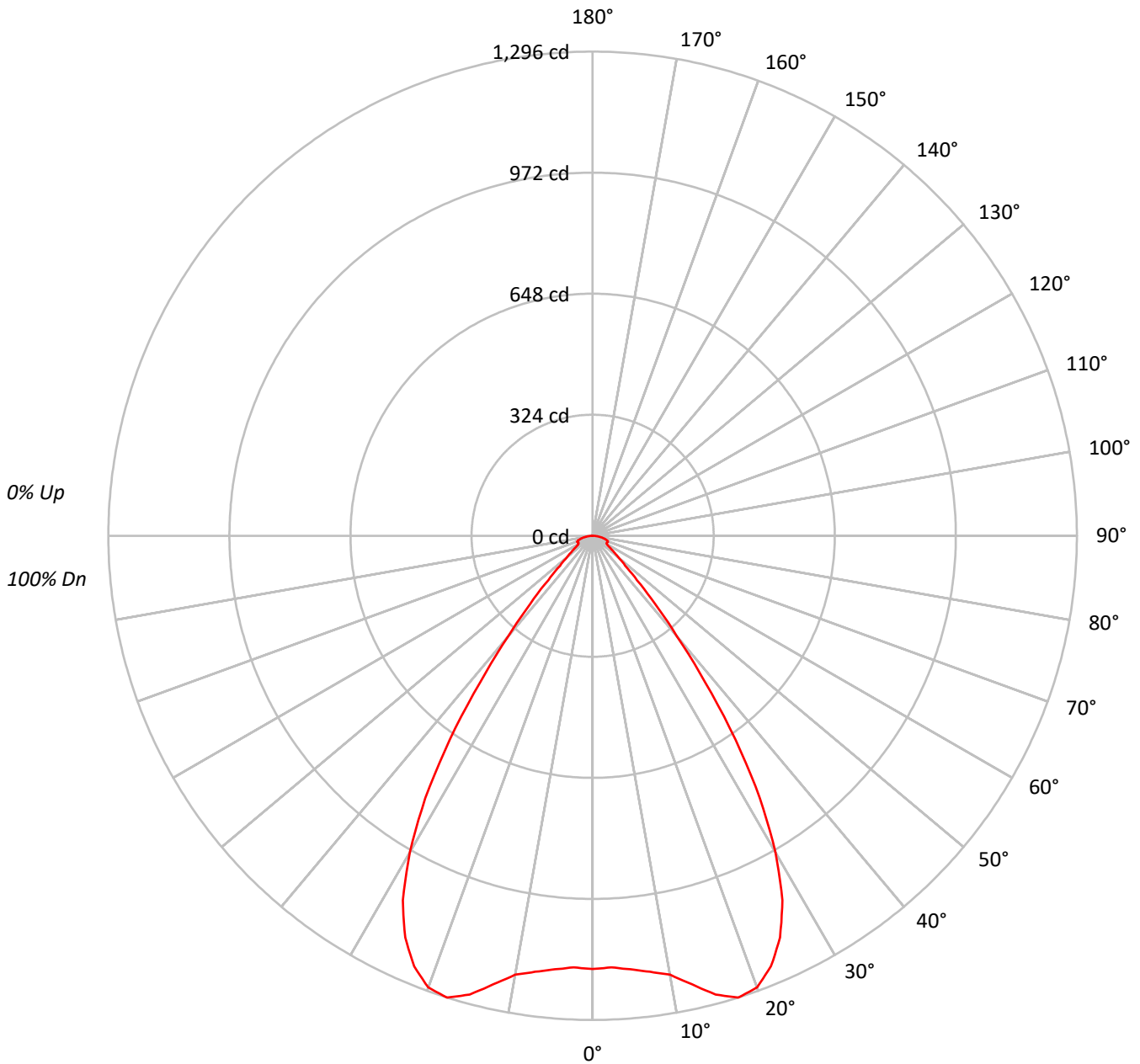
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	63564
5°	64109
10°	66415
15°	72140
20°	75041
25°	71768
30°	61940
35°	44604
40°	25126
45°	13025
50°	7761
55°	5601
60°	4758
65°	5474
70°	6956
75°	7350
80°	7166
85°	6793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	6.6
10°-20°	358.5	21.0
20°-30°	535.9	31.4
30°-40°	409.6	24.0
40°-50°	143.1	8.4
50°-60°	54.5	3.2
60°-70°	42.7	2.5
70°-80°	36.2	2.1
80°-90°	11.6	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°	1006.5	59.1
0°-40°	1416.1	83.1
0°-60°	1613.7	94.7
0°-90°	1704.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1704.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1160	
5°	1165	112
15°	1271	359
25°	1186	536
35°	666	410
45°	168	143
55°	59	55
65°	42	43
75°	35	36
85°	11	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1159.5
2.5°	1156.2
5°	1165.0
7.5°	1176.9
10°	1193.1
12.5°	1229.9
15°	1271.1
17.5°	1296.1
20°	1286.3
22.5°	1247.3
25°	1186.5
27.5°	1099.9
30°	978.5
32.5°	833.3
35°	666.5
37.5°	494.2
40°	351.1
42.5°	246.0
45°	168.0
47.5°	118.2
50°	91.0
52.5°	71.5
55°	58.6
57.5°	47.7
60°	43.4
62.5°	42.2
65°	42.2
67.5°	44.4
70°	43.4
72.5°	40.1
75°	34.7
77.5°	29.3
80°	22.7
82.5°	16.2
85°	10.8
87.5°	4.3
90°	0.0



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— 0°-180°







(END OF REPORT)