

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: P582356

Luminaire Tested: **HC635D010-HM63040927-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582356
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: HC635D010-HM63040927-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3230.5 lumens
Efficiency: N/A
Efficacy: 95.9 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

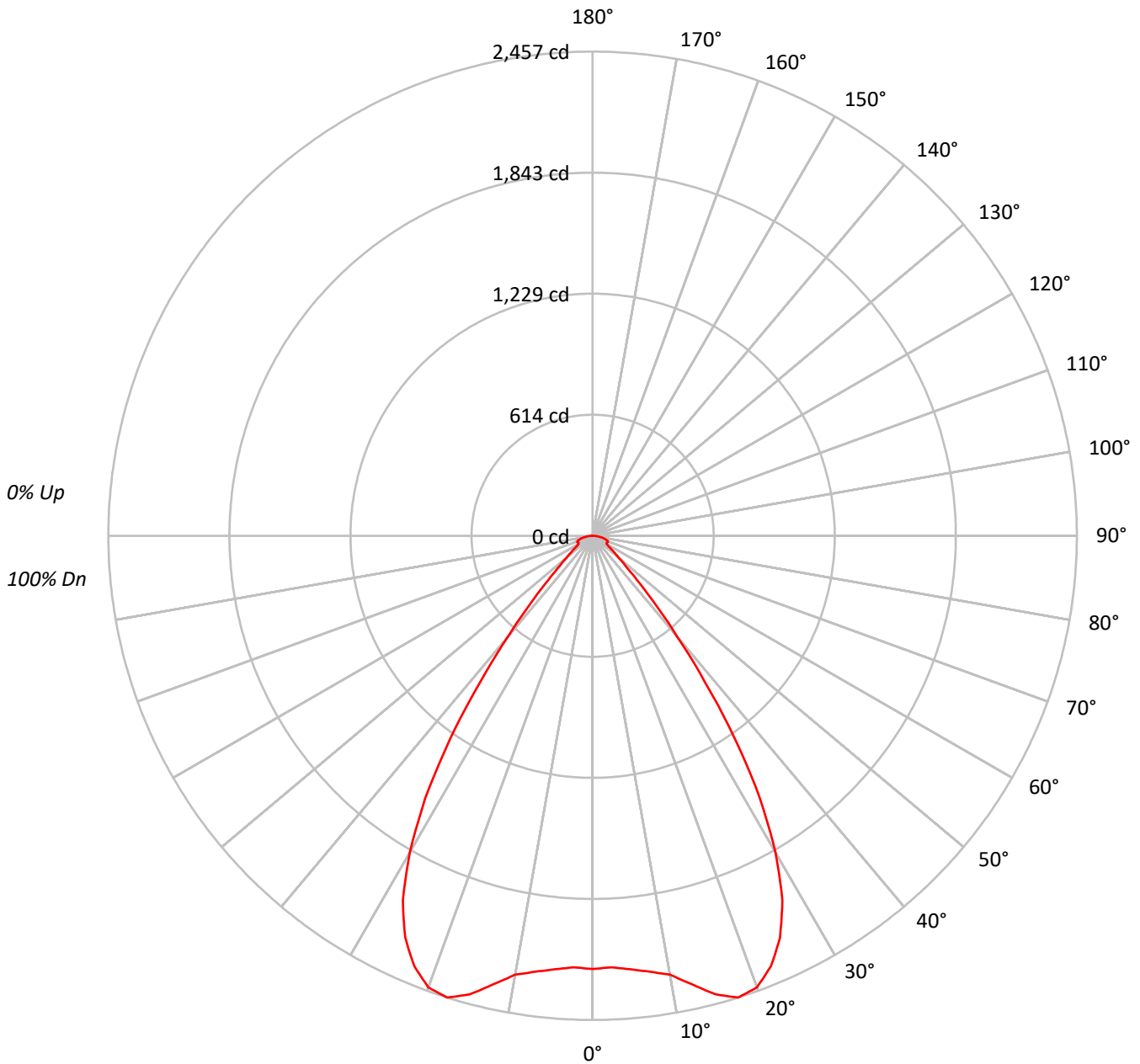
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	120489
5°	121516
10°	125888
15°	136749
20°	142241
25°	136054
30°	117410
35°	84544
40°	47625
45°	24685
50°	14720
55°	10599
60°	9012
65°	10390
70°	13175
75°	13916
80°	13638
85°	12894



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.5	6.6
10°-20°	679.6	21.0
20°-30°	1015.8	31.4
30°-40°	776.5	24.0
40°-50°	271.2	8.4
50°-60°	103.3	3.2
60°-70°	81.1	2.5
70°-80°	68.6	2.1
80°-90°	22.1	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°	1907.8	59.1
0°-40°	2684.3	83.1
0°-60°	3058.8	94.7
0°-90°	3230.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3230.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2198	
5°	2208	212
15°	2410	680
25°	2249	1016
35°	1263	776
45°	318	271
55°	111	103
65°	80	81
75°	66	69
85°	20	22
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2197.9
2.5°	2191.7
5°	2208.2
7.5°	2230.7
10°	2261.5
12.5°	2331.4
15°	2409.5
17.5°	2456.8
20°	2438.2
22.5°	2364.2
25°	2249.3
27.5°	2085.0
30°	1854.8
32.5°	1579.7
35°	1263.3
37.5°	936.6
40°	665.5
42.5°	466.3
45°	318.4
47.5°	223.9
50°	172.6
52.5°	135.6
55°	110.9
57.5°	90.3
60°	82.2
62.5°	80.1
65°	80.1
67.5°	84.3
70°	82.2
72.5°	76.0
75°	65.7
77.5°	55.4
80°	43.2
82.5°	30.8
85°	20.5
87.5°	8.2
90°	0.0



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— 0°-180°







(END OF REPORT)