

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: P582313

Luminaire Tested: **HC635D010-HM63040835-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040835-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3834.3 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

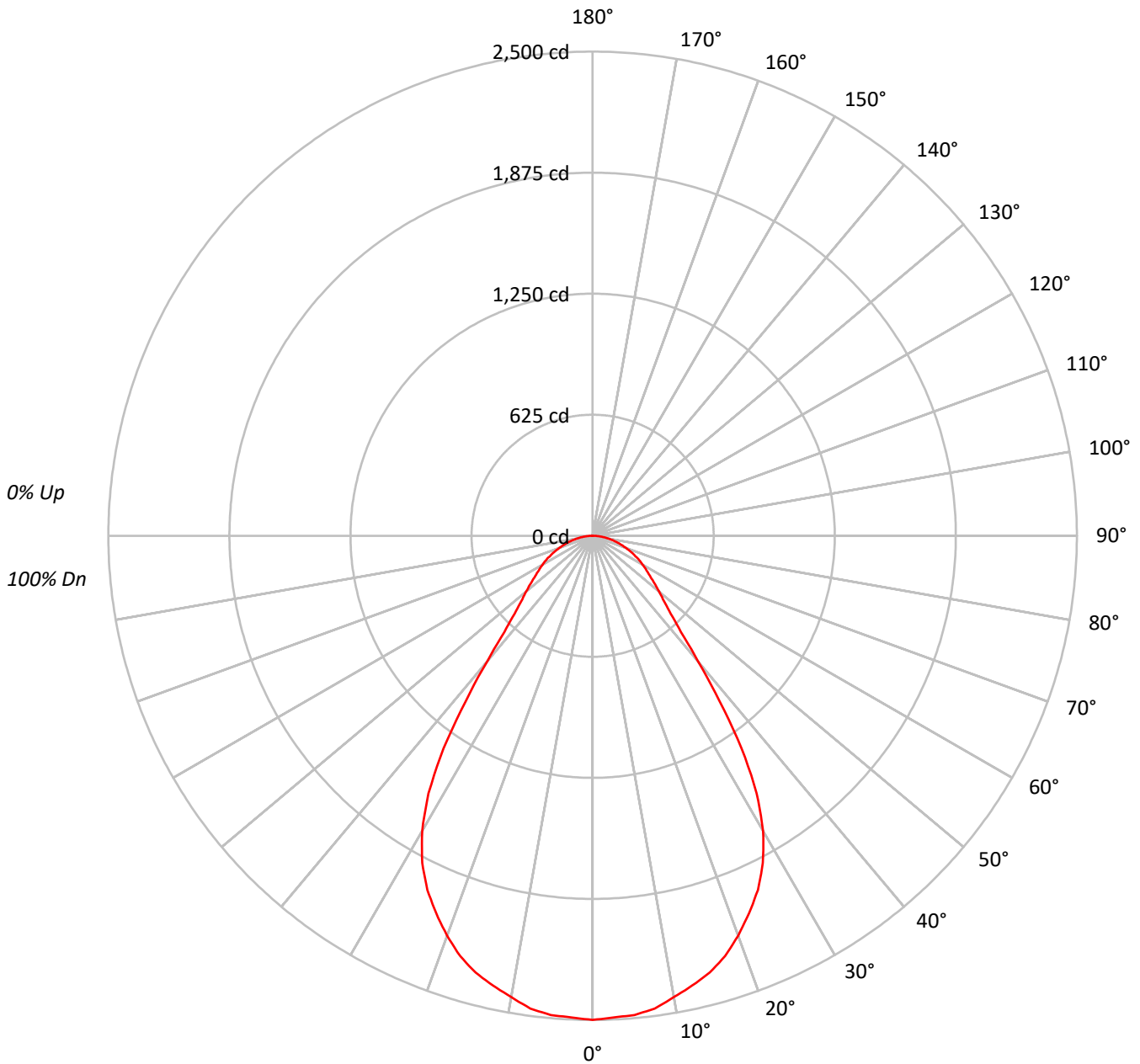
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43			
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39			
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	137045
5°	136677
10°	134639
15°	132509
20°	128146
25°	122057
30°	111441
35°	89730
40°	60470
45°	44098
50°	38122
55°	34436
60°	32662
65°	30911
70°	29091
75°	27535
80°	25635
85°	23839



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.1	6.1
10°-20°	655.6	17.1
20°-30°	921.2	24.0
30°-40°	820.0	21.4
40°-50°	458.2	12.0
50°-60°	326.5	8.5
60°-70°	237.5	6.2
70°-80°	137.5	3.6
80°-90°	42.7	1.1
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°	1811.9	47.3
0°-40°	2631.9	68.6
0°-60°	3416.6	89.1
0°-90°	3834.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3834.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2500	
5°	2484	235
15°	2335	656
25°	2018	921
35°	1341	820
45°	569	458
55°	360	326
65°	238	238
75°	130	138
85°	38	43
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2499.9
2.5°	2489.2
5°	2483.7
7.5°	2462.0
10°	2418.7
12.5°	2378.1
15°	2334.8
17.5°	2275.2
20°	2196.6
22.5°	2109.9
25°	2017.9
27.5°	1904.1
30°	1760.5
32.5°	1576.4
35°	1340.8
37.5°	1075.3
40°	845.0
42.5°	674.4
45°	568.8
47.5°	498.4
50°	447.0
52.5°	400.9
55°	360.3
57.5°	327.7
60°	297.9
62.5°	270.9
65°	238.3
67.5°	211.2
70°	181.5
72.5°	154.4
75°	130.0
77.5°	105.6
80°	81.2
82.5°	59.6
85°	37.9
87.5°	18.9
90°	0.0



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— 0°-180°







(END OF REPORT)