

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: P582366

Luminaire Tested: **HC635D010-HM63040930-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040930-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3338.7 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

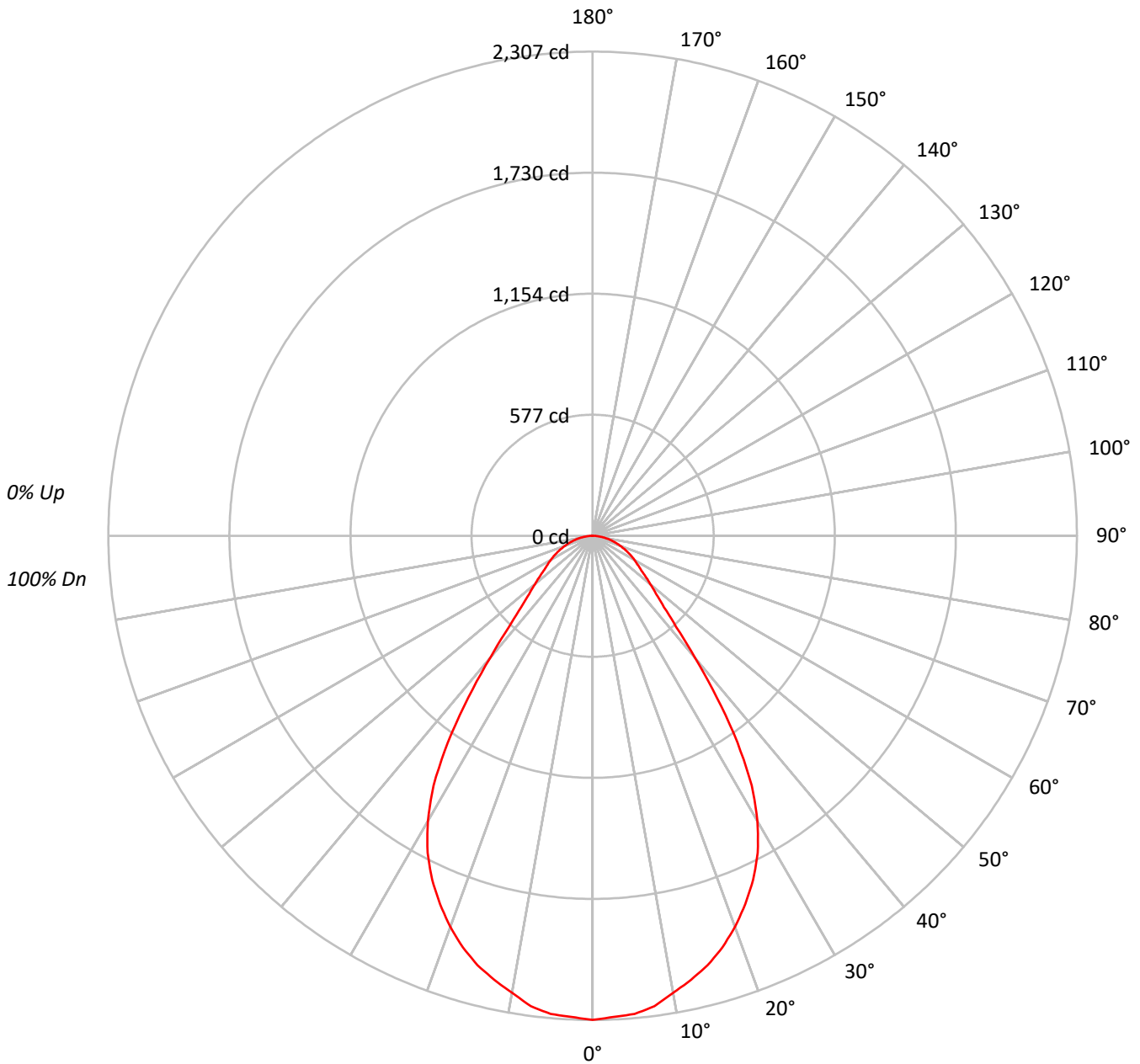
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79			79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57			57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48			48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44			44
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41			41
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	126454
5°	125858
10°	123077
15°	120194
20°	115673
25°	109397
30°	99414
35°	80475
40°	54266
45°	37283
50°	30558
55°	26733
60°	25294
65°	23868
70°	22424
75°	21308
80°	19384
85°	16983



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.9	6.5
10°-20°	594.7	17.8
20°-30°	826.3	24.7
30°-40°	735.7	22.0
40°-50°	390.5	11.7
50°-60°	255.4	7.6
60°-70°	183.0	5.5
70°-80°	106.1	3.2
80°-90°	31.1	0.9
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°	1636.9	49.0
0°-40°	2372.6	71.1
0°-60°	3018.5	90.4
0°-90°	3338.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3338.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2307	
5°	2287	216
15°	2118	595
25°	1809	826
35°	1202	736
45°	481	391
55°	280	255
65°	184	183
75°	101	106
85°	27	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2306.7
2.5°	2294.4
5°	2287.1
7.5°	2260.1
10°	2211.0
12.5°	2166.9
15°	2117.8
17.5°	2056.5
20°	1982.8
22.5°	1899.4
25°	1808.6
27.5°	1703.0
30°	1570.5
32.5°	1411.0
35°	1202.5
37.5°	971.8
40°	758.3
42.5°	589.0
45°	480.9
47.5°	409.9
50°	358.3
52.5°	316.6
55°	279.7
57.5°	252.8
60°	230.7
62.5°	208.5
65°	184.0
67.5°	162.0
70°	139.9
72.5°	120.2
75°	100.6
77.5°	81.0
80°	61.4
82.5°	44.2
85°	27.0
87.5°	12.3
90°	0.0



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— 0°-180°







(END OF REPORT)