

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: P582309

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040835-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3739.7 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

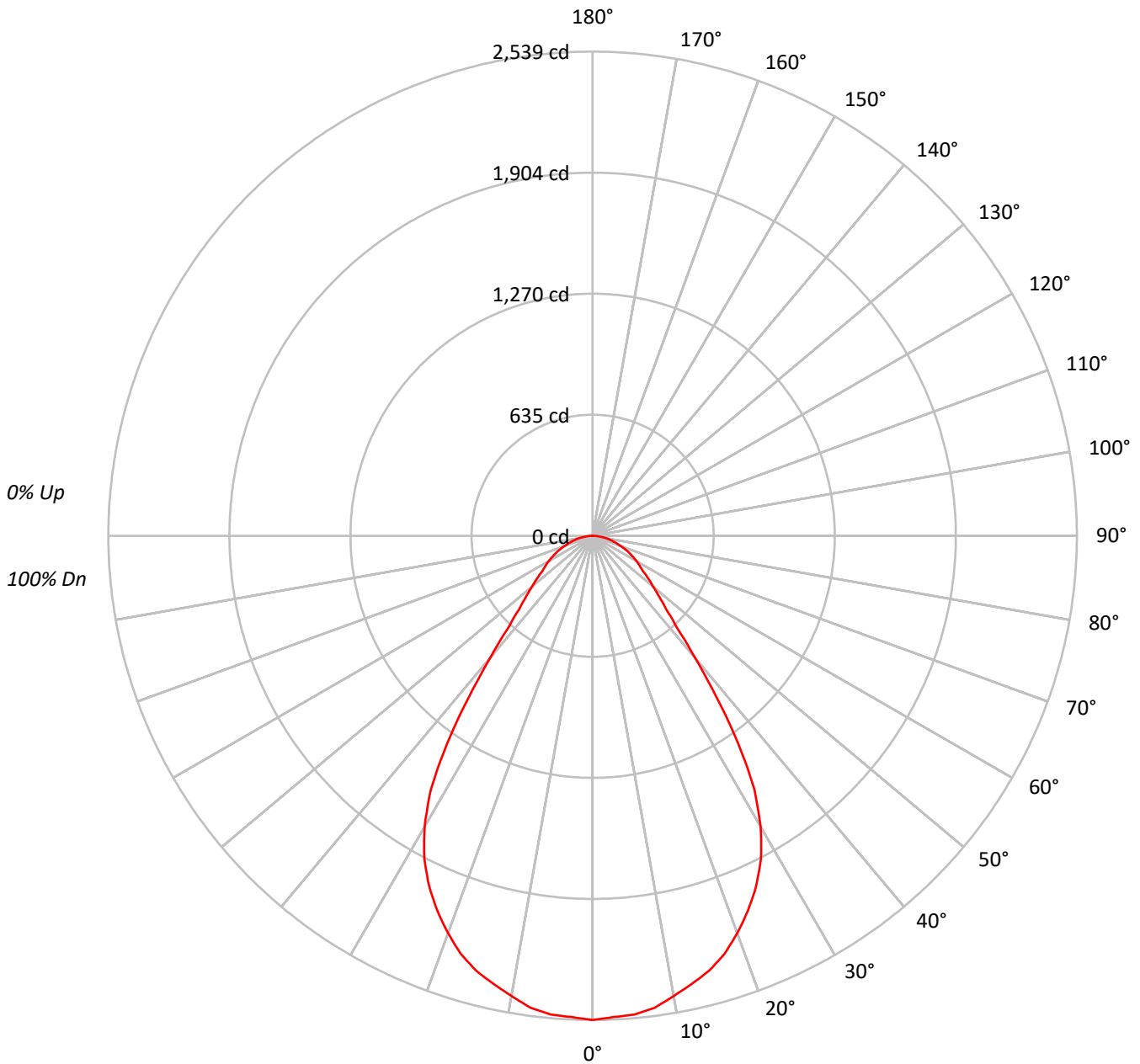
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	139210
5°	138702
10°	136387
15°	133979
20°	129354
25°	122656
30°	111561
35°	89142
40°	59476
45°	42400
50°	35325
55°	30795
60°	29088
65°	27383
70°	25181
75°	23511
80°	21373
85°	18744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.4	6.4
10°-20°	662.9	17.7
20°-30°	926.3	24.8
30°-40°	816.0	21.8
40°-50°	440.8	11.8
50°-60°	294.7	7.9
60°-70°	208.9	5.6
70°-80°	117.5	3.1
80°-90°	34.3	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°	1827.5	48.9
0°-40°	2643.5	70.7
0°-60°	3379.0	90.4
0°-90°	3739.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3739.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2539	
5°	2520	238
15°	2361	663
25°	2028	926
35°	1332	816
45°	547	441
55°	322	295
65°	211	209
75°	111	117
85°	30	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2539.4
2.5°	2525.9
5°	2520.5
7.5°	2496.1
10°	2450.1
12.5°	2406.7
15°	2360.7
17.5°	2298.5
20°	2217.3
22.5°	2127.9
25°	2027.8
27.5°	1911.3
30°	1762.4
32.5°	1578.4
35°	1332.0
37.5°	1064.0
40°	831.1
42.5°	655.2
45°	546.9
47.5°	473.8
50°	414.2
52.5°	365.5
55°	322.2
57.5°	292.3
60°	265.3
62.5°	238.2
65°	211.1
67.5°	184.0
70°	157.1
72.5°	132.7
75°	111.0
77.5°	89.4
80°	67.7
82.5°	48.8
85°	29.8
87.5°	13.5
90°	0.0



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— 0°-180°







(END OF REPORT)