

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: P582290

Luminaire Tested: **HC635D010-HM63040830-61MDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040830-61MDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3697.6 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.97
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

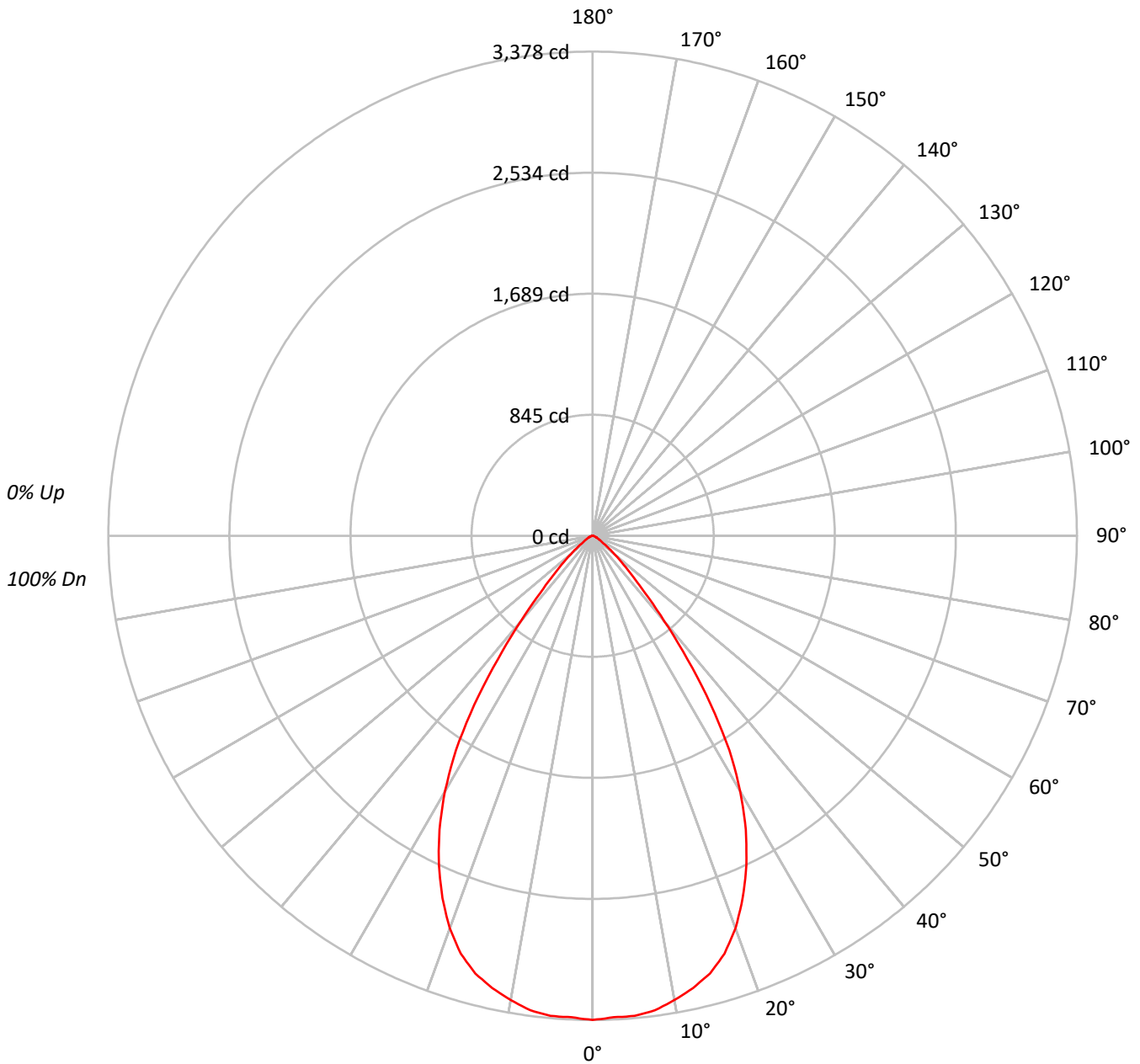
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
RC	80									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	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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	94	93																											
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85																											
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79																											
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72																											
5	90	81	75	71	89	80	75	70	79	74	70	77	73	69	75	72	68	67																											
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62																											
7	81	71	65	60	79	70	64	60	69	64	60	68	63	59	67	62	59	57																											
8	77	67	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53																											
9	73	62	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50																											
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	185188
5°	185037
10°	183102
15°	179422
20°	169963
25°	153487
30°	130387
35°	96262
40°	55669
45°	29546
50°	16699
55°	8736
60°	5723
65°	4060
70°	2933
75°	2203
80°	1673
85°	1635



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.6	8.6
10°-20°	884.2	23.9
20°-30°	1154.1	31.2
30°-40°	881.9	23.9
40°-50°	319.3	8.6
50°-60°	92.7	2.5
60°-70°	33.2	0.9
70°-80°	11.4	0.3
80°-90°	2.1	0.1
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°	2357.0	63.7
0°-40°	3238.9	87.6
0°-60°	3650.9	98.7
0°-90°	3697.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3697.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3378	
5°	3362	319
15°	3161	884
25°	2538	1154
35°	1438	882
45°	381	319
55°	91	93
65°	31	33
75°	10	11
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3378.1
2.5°	3362.5
5°	3362.5
7.5°	3338.9
10°	3289.3
12.5°	3231.9
15°	3161.4
17.5°	3057.0
20°	2913.4
22.5°	2735.9
25°	2537.5
27.5°	2313.0
30°	2059.8
32.5°	1775.2
35°	1438.4
37.5°	1086.0
40°	777.9
42.5°	537.8
45°	381.1
47.5°	274.1
50°	195.8
52.5°	138.4
55°	91.4
57.5°	65.2
60°	52.2
62.5°	41.8
65°	31.3
67.5°	26.1
70°	18.3
72.5°	13.1
75°	10.4
77.5°	7.8
80°	5.3
82.5°	2.6
85°	2.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)