

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: P582361

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040930-61MDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3868.6 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.96
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

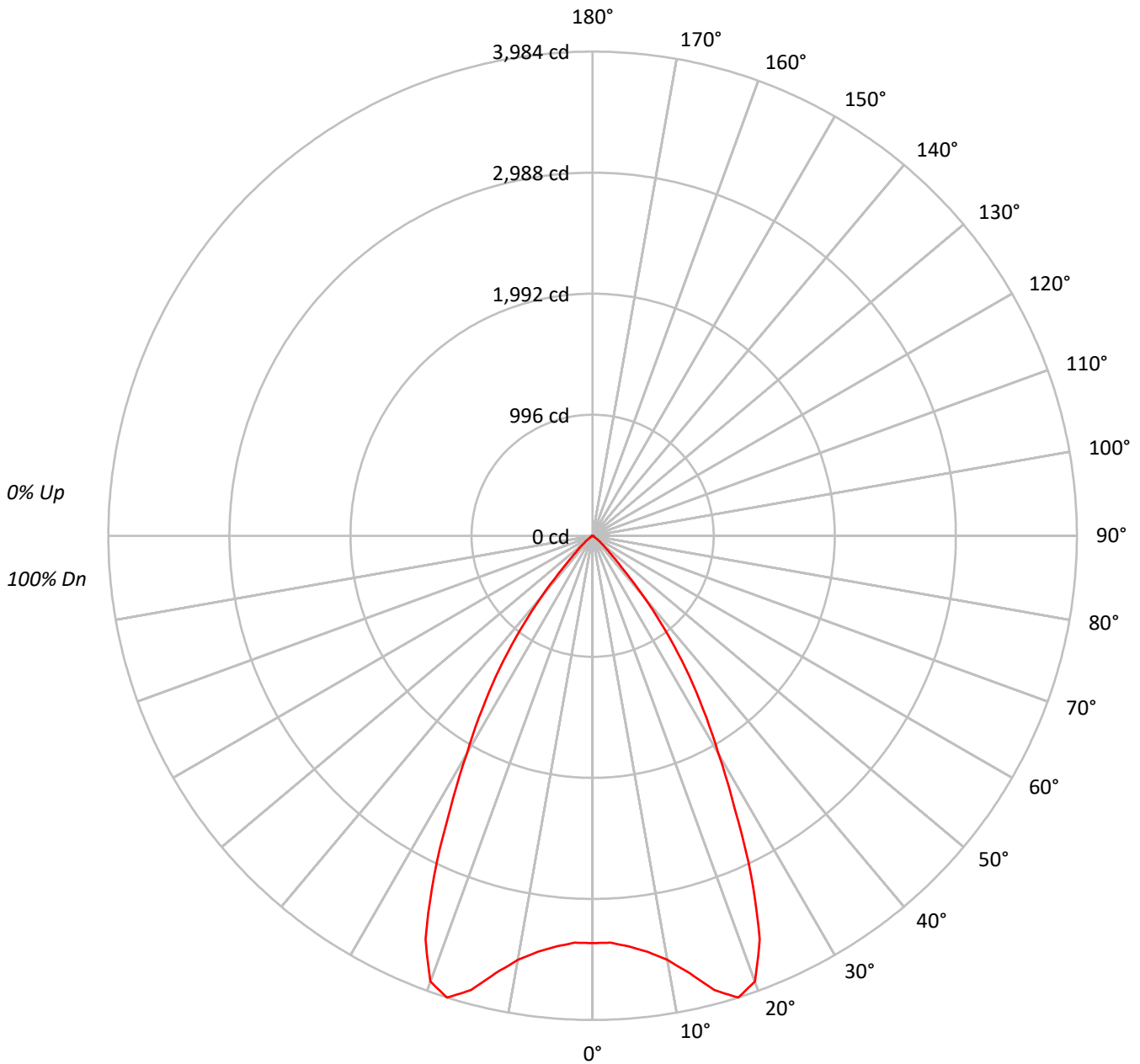
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P582361

CATALOG NUMBER: HC635D010-HM63040930-61MDC

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81
4	97	90	84	80	95	89	83	79	86	82	79	84	81	78	83	79	77	75
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65
7	83	74	68	64	82	73	68	63	72	67	63	71	66	63	70	66	62	61
8	79	70	63	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	183713
5°	186572
10°	197191
15°	219564
20°	227695
25°	186821
30°	130906
35°	89316
40°	46523
45°	16358
50°	7326
55°	2342
60°	1349
65°	960
70°	785
75°	530
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.4	8.5
10°-20°	1088.0	28.1
20°-30°	1385.4	35.8
30°-40°	825.7	21.3
40°-50°	200.2	5.2
50°-60°	30.7	0.8
60°-70°	7.6	0.2
70°-80°	2.6	0.1
80°-90°	0.0	0.0
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°	2801.8	72.4
0°-40°	3627.5	93.8
0°-60°	3858.4	99.7
0°-90°	3868.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3868.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3351	
5°	3390	328
15°	3869	1088
25°	3089	1385
35°	1335	826
45°	211	200
55°	24	31
65°	7	8
75°	2	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3351.2
2.5°	3351.2
5°	3390.4
7.5°	3451.6
10°	3542.4
12.5°	3684.8
15°	3868.7
17.5°	3984.0
20°	3903.0
22.5°	3591.6
25°	3088.6
27.5°	2534.1
30°	2068.0
32.5°	1690.3
35°	1334.6
37.5°	983.8
40°	650.1
42.5°	350.8
45°	211.0
47.5°	132.5
50°	85.9
52.5°	51.5
55°	24.5
57.5°	14.7
60°	12.3
62.5°	9.8
65°	7.4
67.5°	4.9
70°	4.9
72.5°	2.5
75°	2.5
77.5°	2.5
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)