

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: P582345

Luminaire Tested: **HC635D010-HM63040927-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582345
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-HM63040927-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2836.2 lumens
Efficiency: N/A
Efficacy: 84.2 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

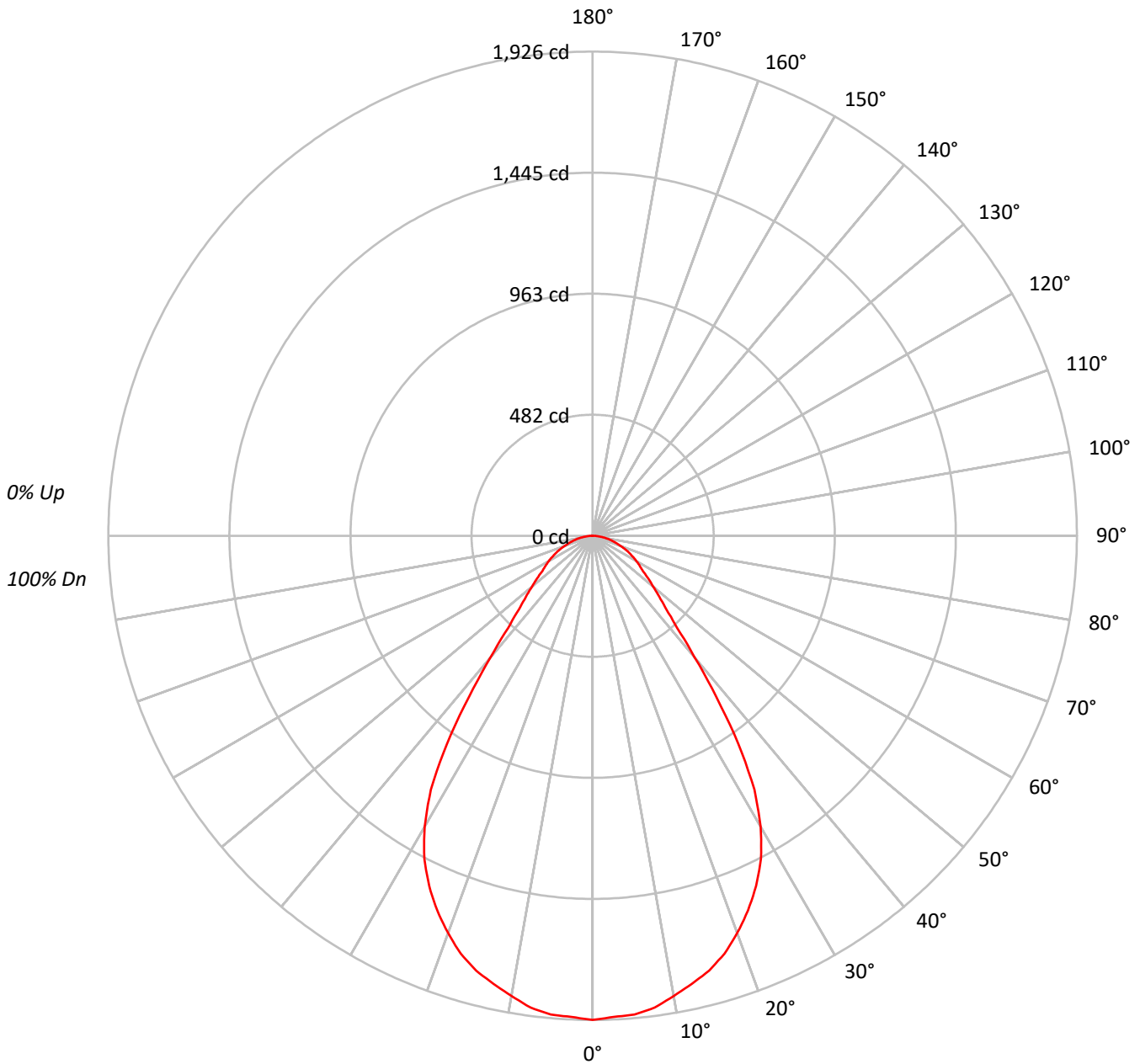
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	105578
5°	105189
10°	103438
15°	101612
20°	98102
25°	93024
30°	84614
35°	67606
40°	45106
45°	32158
50°	26797
55°	23359
60°	22060
65°	20767
70°	19074
75°	17813
80°	16195
85°	14215



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.8	6.4
10°-20°	502.7	17.7
20°-30°	702.5	24.8
30°-40°	618.8	21.8
40°-50°	334.3	11.8
50°-60°	223.6	7.9
60°-70°	158.4	5.6
70°-80°	89.0	3.1
80°-90°	26.0	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°	1386.0	48.9
0°-40°	2004.8	70.7
0°-60°	2562.7	90.4
0°-90°	2836.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2836.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1926	
5°	1912	181
15°	1790	503
25°	1538	702
35°	1010	619
45°	415	334
55°	244	224
65°	160	158
75°	84	89
85°	23	26
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1925.9
2.5°	1915.6
5°	1911.5
7.5°	1893.1
10°	1858.2
12.5°	1825.3
15°	1790.4
17.5°	1743.3
20°	1681.6
22.5°	1613.8
25°	1537.9
27.5°	1449.6
30°	1336.7
32.5°	1197.0
35°	1010.2
37.5°	807.0
40°	630.3
42.5°	496.9
45°	414.8
47.5°	359.3
50°	314.2
52.5°	277.2
55°	244.4
57.5°	221.7
60°	201.2
62.5°	180.7
65°	160.1
67.5°	139.6
70°	119.0
72.5°	100.6
75°	84.1
77.5°	67.8
80°	51.3
82.5°	37.0
85°	22.6
87.5°	10.3
90°	0.0



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— 0°-180°







(END OF REPORT)