

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: P583212

Luminaire Tested: **HC660D010-HM64560927-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583212
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: HC660D010-HM64560927-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3990.6 lumens
Efficiency: N/A
Efficacy: 72.6 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

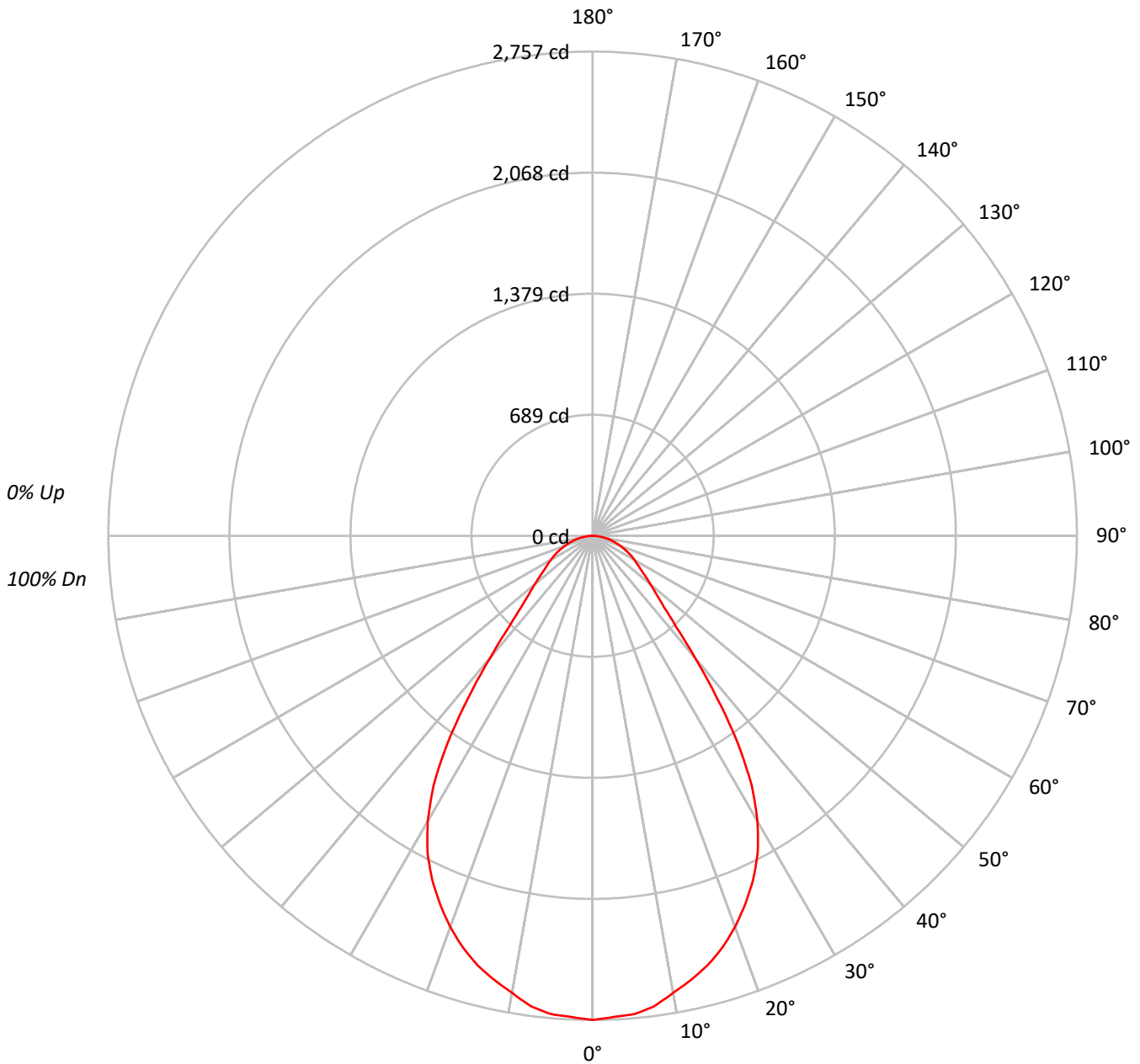
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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°	151150
5°	150434
10°	147108
15°	143661
20°	138262
25°	130762
30°	118828
35°	96189
40°	64864
45°	44571
50°	36528
55°	31961
60°	30228
65°	28537
70°	26799
75°	25459
80°	23141
85°	20316



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.1	6.5
10°-20°	710.9	17.8
20°-30°	987.6	24.7
30°-40°	879.4	22.0
40°-50°	466.8	11.7
50°-60°	305.3	7.6
60°-70°	218.8	5.5
70°-80°	126.8	3.2
80°-90°	37.1	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°	1956.5	49.0
0°-40°	2835.9	71.1
0°-60°	3607.9	90.4
0°-90°	3990.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3990.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2757	
5°	2734	258
15°	2531	711
25°	2162	988
35°	1437	879
45°	575	467
55°	334	305
65°	220	219
75°	120	127
85°	32	37
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2757.2
2.5°	2742.6
5°	2733.7
7.5°	2701.4
10°	2642.7
12.5°	2590.0
15°	2531.3
17.5°	2458.0
20°	2370.0
22.5°	2270.2
25°	2161.8
27.5°	2035.6
30°	1877.2
32.5°	1686.6
35°	1437.3
37.5°	1161.6
40°	906.4
42.5°	704.0
45°	574.9
47.5°	489.8
50°	428.3
52.5°	378.4
55°	334.4
57.5°	302.1
60°	275.7
62.5°	249.3
65°	220.0
67.5°	193.6
70°	167.2
72.5°	143.7
75°	120.2
77.5°	96.8
80°	73.3
82.5°	52.8
85°	32.3
87.5°	14.6
90°	0.0



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— 0°-180°







(END OF REPORT)