

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: P583163

Luminaire Tested: **HC660D010-HM64560830-61WDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583163
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC660D010-HM64560830-61WDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

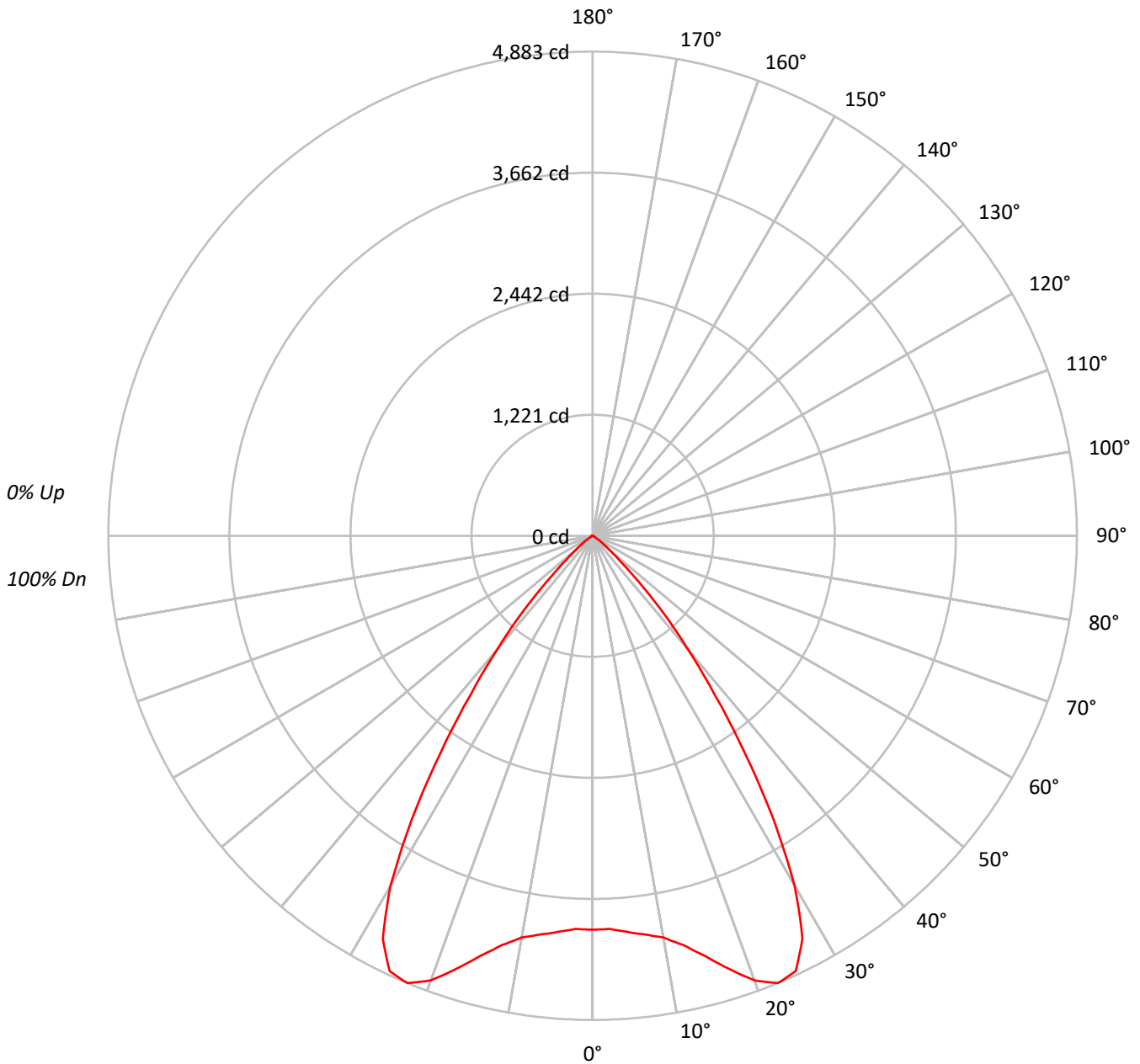
Lumens per Lamp: N/A
Luminaire Lumens: 6142.5 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 55
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	100	100
1	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	97	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	82	88	84	81	85	82	80	78	78	78	78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	74	72	72	72	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61	61
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	66	61	58	56	56	56	56
8	76	65	59	54	74	65	59	54	64	58	54	62	57	54	61	57	53	52	52	52	52
9	71	61	55	50	70	60	54	50	60	54	50	59	53	50	58	53	50	48	48	48	48
10	68	57	51	47	67	57	51	47	56	50	46	55	50	46	54	50	46	45	45	45	45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	217762
5°	220691
10°	228970
15°	249003
20°	278397
25°	293025
30°	257957
35°	178926
40°	106836
45°	50788
50°	19164
55°	8009
60°	2500
65°	1972
70°	1234
75°	805
80°	1200
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.0	6.3
10°-20°	1259.8	20.5
20°-30°	2158.8	35.1
30°-40°	1676.5	27.3
40°-50°	554.2	9.0
50°-60°	85.0	1.4
60°-70°	15.0	0.2
70°-80°	5.5	0.1
80°-90°	1.5	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°	3804.6	61.9
0°-40°	5481.1	89.2
0°-60°	6120.3	99.6
0°-90°	6142.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6142.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3972	
5°	4010	386
15°	4387	1260
25°	4844	2159
35°	2674	1677
45°	655	554
55°	84	85
65°	15	15
75°	4	6
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3972.3
2.5°	3968.6
5°	4010.4
7.5°	4056.2
10°	4113.3
12.5°	4227.5
15°	4387.4
17.5°	4581.7
20°	4772.1
22.5°	4882.6
25°	4844.4
27.5°	4581.7
30°	4075.1
32.5°	3393.4
35°	2673.6
37.5°	2029.9
40°	1492.9
42.5°	1055.0
45°	655.1
47.5°	365.6
50°	224.7
52.5°	137.1
55°	83.8
57.5°	41.9
60°	22.8
62.5°	19.1
65°	15.2
67.5°	11.4
70°	7.7
72.5°	7.7
75°	3.8
77.5°	3.8
80°	3.8
82.5°	3.8
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)