

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: P593420

Luminaire Tested: **HC660D010-HM64560850-61WDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593420
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-HM64560850-61WDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6683.6 lumens
Efficiency: N/A
Efficacy: 121.5 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

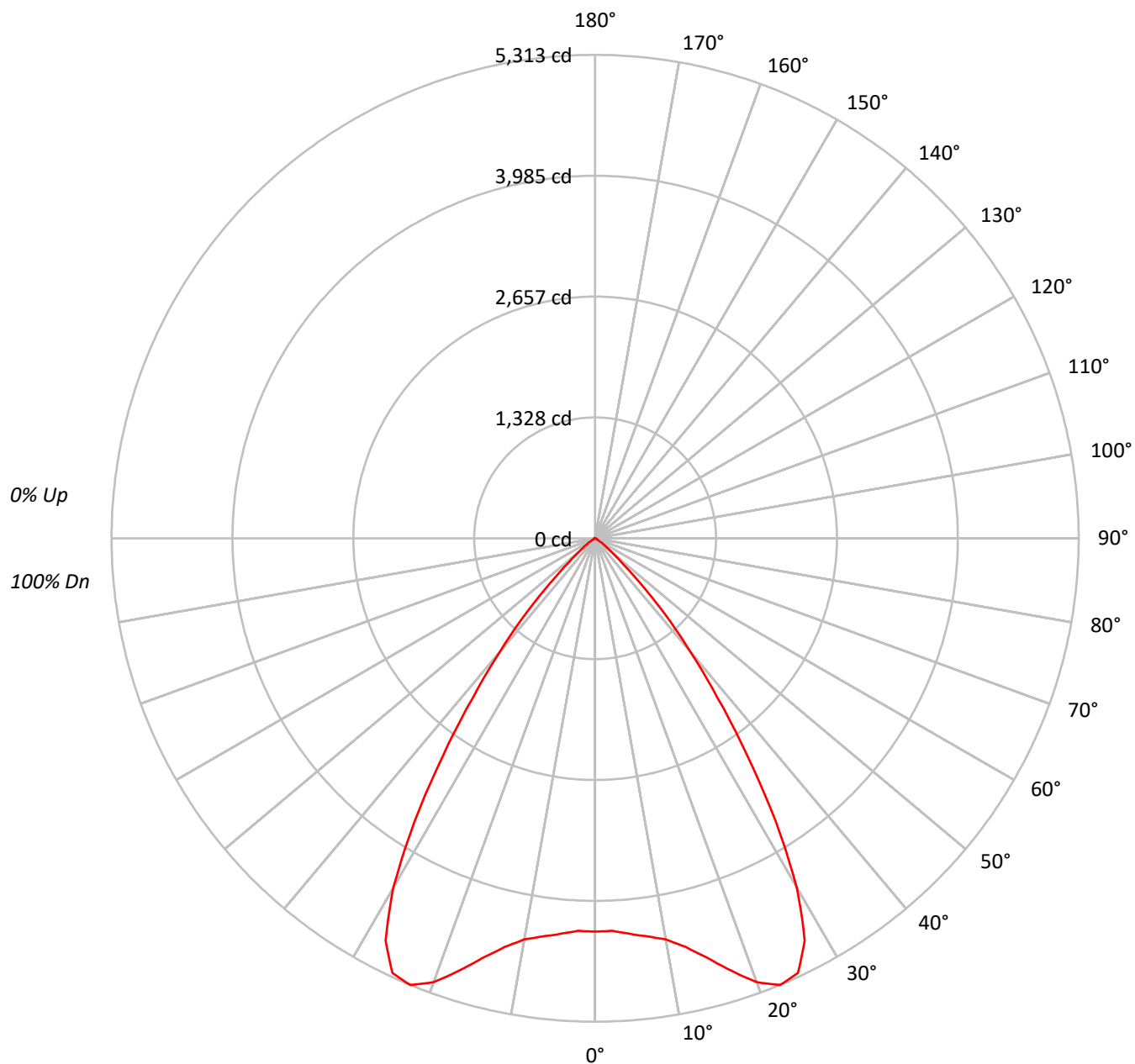
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	108	105	111	108	106	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	93	97	94	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	82		88	84	81		85
4	95	87	81	77	93	86	80	76	84	79	75		82	78	74		80
5	90	81	75	70	88	80	74	70	78	73	69		76	72	68		75
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70
7	80	70	63	59	79	69	63	59	68	62	58		67	62	58		66
8	76	65	59	54	74	65	59	54	64	58	54		62	57	54		61
9	71	61	55	50	70	60	54	50	60	54	50		59	53	50		58
10	68	57	51	47	67	57	51	47	56	50	46		55	50	46		54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	236949
5°	240138
10°	249144
15°	270944
20°	302928
25°	318847
30°	280689
35°	194693
40°	116254
45°	55262
50°	20852
55°	8717
60°	2719
65°	2140
70°	1330
75°	868
80°	1294
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.0	6.3
10°-20°	1370.8	20.5
20°-30°	2349.0	35.1
30°-40°	1824.3	27.3
40°-50°	603.1	9.0
50°-60°	92.5	1.4
60°-70°	16.3	0.2
70°-80°	6.0	0.1
80°-90°	1.7	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°	4139.8	61.9
0°-40°	5964.1	89.2
0°-60°	6659.6	99.6
0°-90°	6683.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6683.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4322	
5°	4364	420
15°	4774	1371
25°	5271	2349
35°	2909	1824
45°	713	603
55°	91	92
65°	16	16
75°	4	6
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4322.3
2.5°	4318.2
5°	4363.8
7.5°	4413.5
10°	4475.7
12.5°	4600.0
15°	4774.0
17.5°	4985.4
20°	5192.6
22.5°	5312.8
25°	5271.3
27.5°	4985.4
30°	4434.2
32.5°	3692.4
35°	2909.2
37.5°	2208.8
40°	1624.5
42.5°	1147.9
45°	712.8
47.5°	397.8
50°	244.5
52.5°	149.2
55°	91.2
57.5°	45.6
60°	24.8
62.5°	20.7
65°	16.5
67.5°	12.4
70°	8.3
72.5°	8.3
75°	4.1
77.5°	4.1
80°	4.1
82.5°	4.1
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)