

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: P582821

Luminaire Tested: **HC650D010-HM64560935-61WDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582821
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: HC650D010-HM64560935-61WDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5234.8 lumens
Efficiency: N/A
Efficacy: 109.1 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

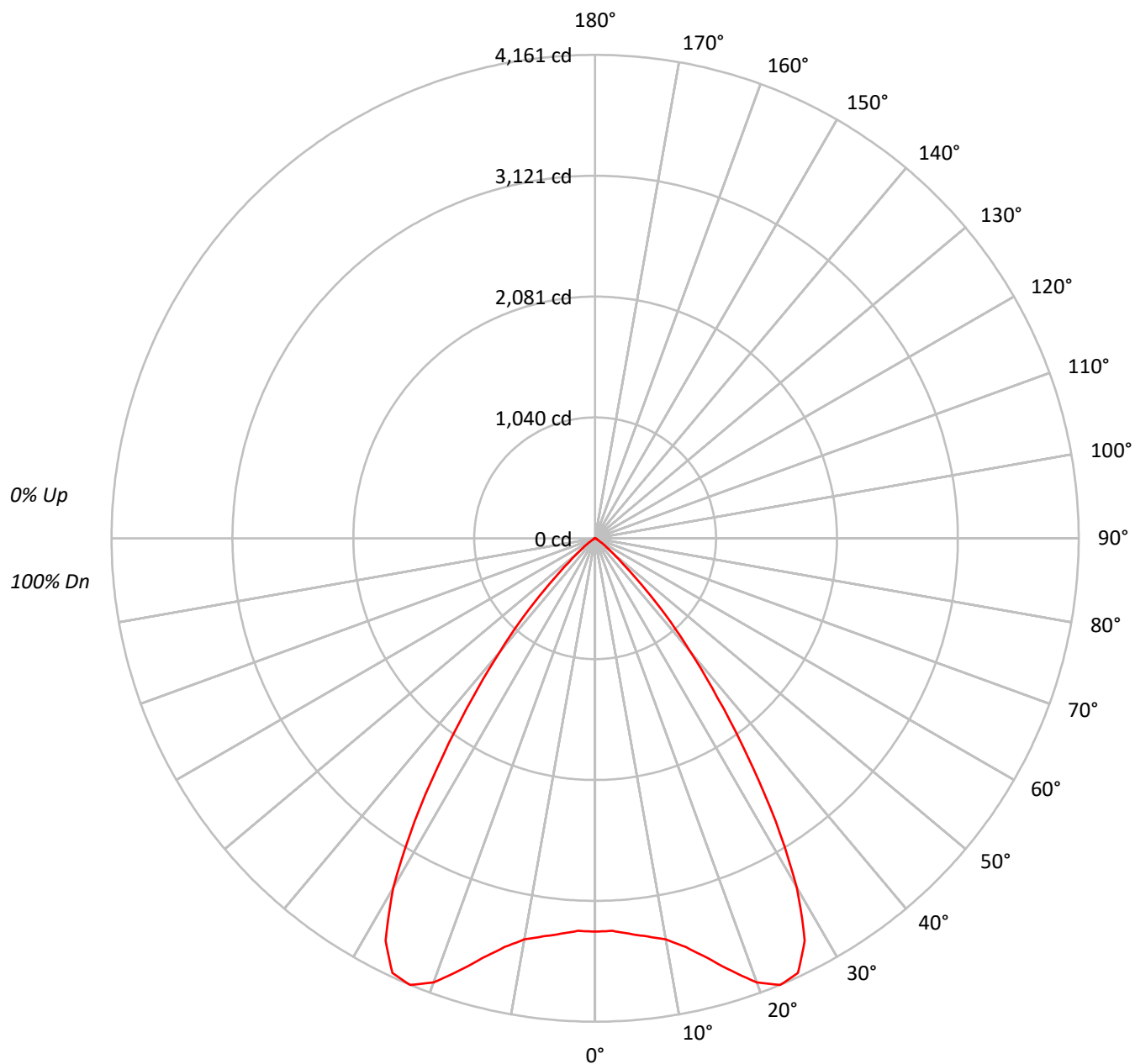
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	185583
5°	188080
10°	195131
15°	212215
20°	237262
25°	249734
30°	219844
35°	152484
40°	91056
45°	43284
50°	16341
55°	6834
60°	2138
65°	1686
70°	1042
75°	678
80°	1010
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.9	6.3
10°-20°	1073.7	20.5
20°-30°	1839.8	35.1
30°-40°	1428.8	27.3
40°-50°	472.4	9.0
50°-60°	72.5	1.4
60°-70°	12.8	0.2
70°-80°	4.7	0.1
80°-90°	1.3	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°	3242.4	61.9
0°-40°	4671.2	89.2
0°-60°	5216.0	99.6
0°-90°	5234.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5234.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3385	
5°	3418	329
15°	3739	1074
25°	4129	1840
35°	2278	1429
45°	558	472
55°	72	72
65°	13	13
75°	3	5
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3385.3
2.5°	3382.1
5°	3417.8
7.5°	3456.8
10°	3505.4
12.5°	3602.9
15°	3739.2
17.5°	3904.7
20°	4067.0
22.5°	4161.1
25°	4128.7
27.5°	3904.7
30°	3473.0
32.5°	2892.0
35°	2278.5
37.5°	1730.0
40°	1272.4
42.5°	899.1
45°	558.3
47.5°	311.5
50°	191.6
52.5°	116.8
55°	71.5
57.5°	35.7
60°	19.5
62.5°	16.2
65°	13.0
67.5°	9.7
70°	6.5
72.5°	6.5
75°	3.2
77.5°	3.2
80°	3.2
82.5°	3.2
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)