

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: P593380

Luminaire Tested: **HC655D010-HM64560850-61WDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560850-61WDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5878.0 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

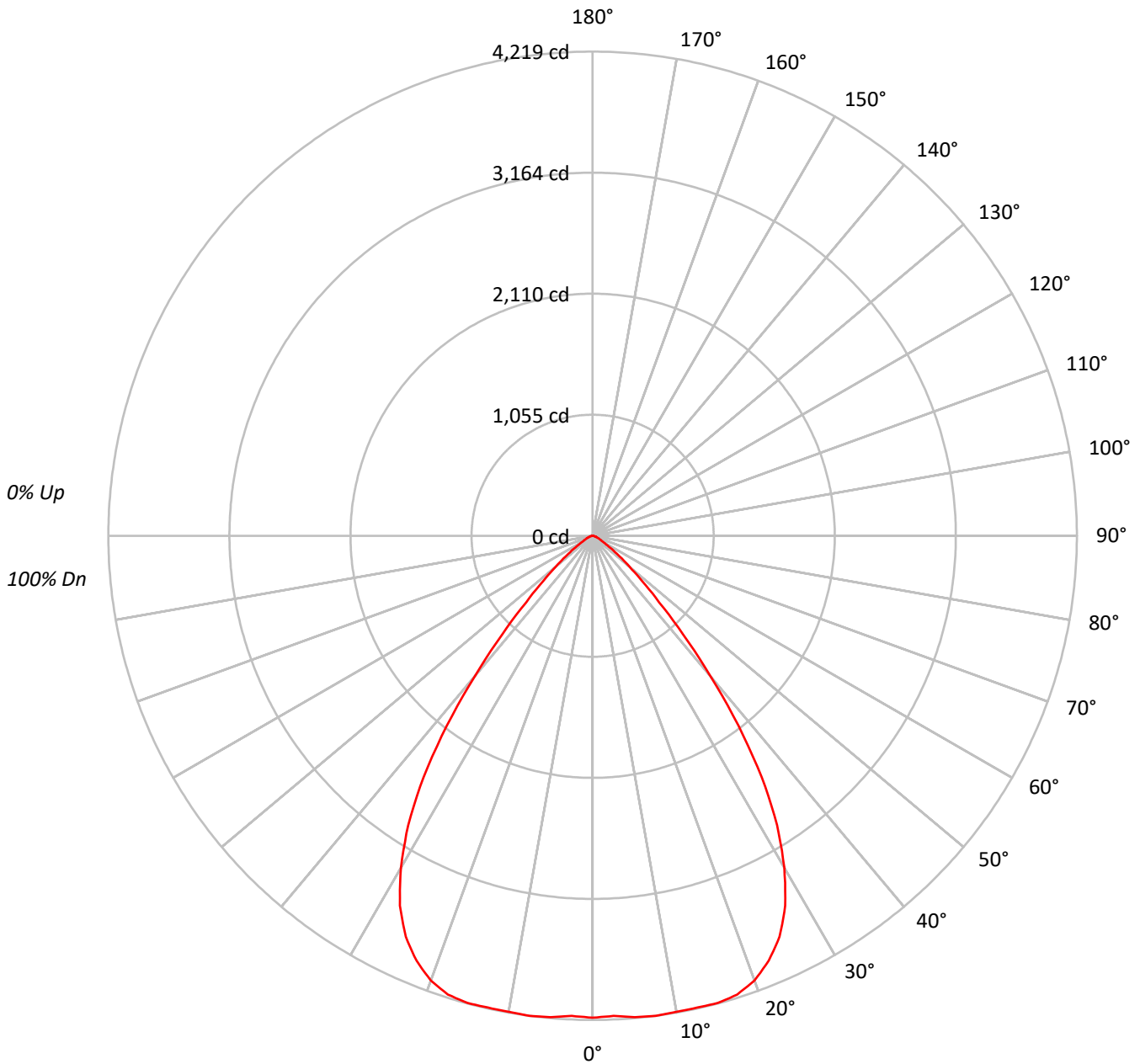
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	105	110	108	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84	84	84	84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	80	84	81	78	77	77	77	77
4	94	86	79	75	92	85	79	74	82	77	73	80	76	72	78	75	72	70	70	70	70
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64	64	64	64
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59	59	59	59
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54	54	54	54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	51	50	50	50	50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46	46	46	46
10	66	56	49	45	65	55	49	45	54	49	45	53	48	45	53	48	44	43	43	43	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	230206
5°	231741
10°	234420
15°	239224
20°	240570
25°	233076
30°	211444
35°	171919
40°	114114
45°	63510
50°	35615
55°	19765
60°	10898
65°	8250
70°	5738
75°	4215
80°	2494
85°	2516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.9	6.8
10°-20°	1188.5	20.2
20°-30°	1751.7	29.8
30°-40°	1566.8	26.7
40°-50°	679.7	11.6
50°-60°	199.7	3.4
60°-70°	63.7	1.1
70°-80°	22.5	0.4
80°-90°	3.2	0.1
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°	3342.2	56.9
0°-40°	4909.1	83.5
0°-60°	5788.5	98.5
0°-90°	5878.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5878.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4199	
5°	4211	402
15°	4215	1189
25°	3853	1752
35°	2569	1567
45°	819	680
55°	207	200
65°	64	64
75°	20	22
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4199.3
2.5°	4187.3
5°	4211.2
7.5°	4219.2
10°	4211.2
12.5°	4211.2
15°	4215.1
17.5°	4191.3
20°	4123.7
22.5°	4008.4
25°	3853.3
27.5°	3634.5
30°	3340.3
32.5°	2990.4
35°	2568.9
37.5°	2087.8
40°	1594.6
42.5°	1165.1
45°	819.2
47.5°	584.5
50°	417.6
52.5°	298.2
55°	206.8
57.5°	139.2
60°	99.4
62.5°	79.5
65°	63.6
67.5°	47.7
70°	35.8
72.5°	27.8
75°	19.9
77.5°	15.9
80°	7.9
82.5°	4.0
85°	4.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)