

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: P582569

Luminaire Tested: **HC645D010-HM64560827-61WDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582569
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: HC645D010-HM64560827-61WDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

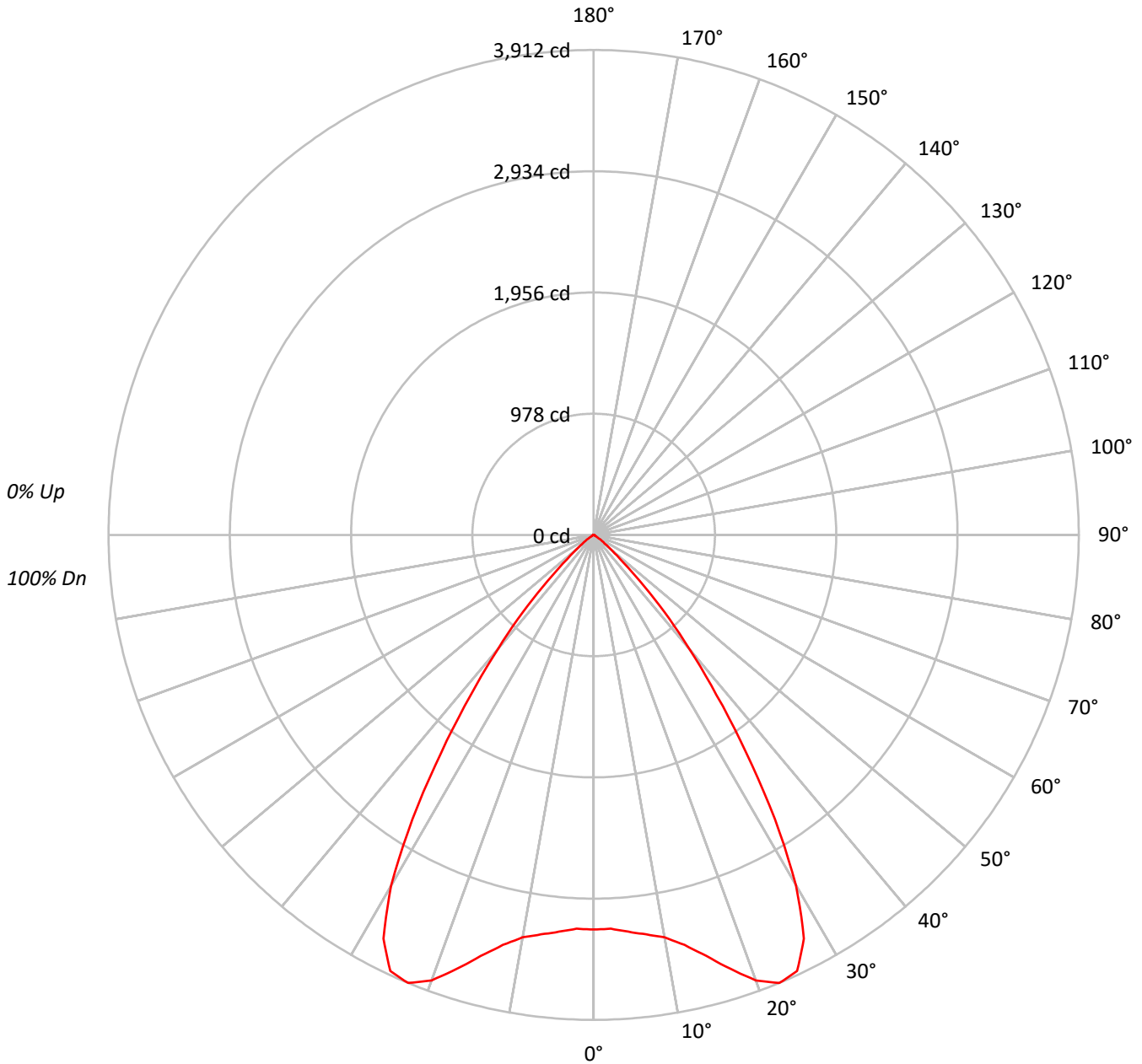
Lumens per Lamp: N/A
Luminaire Lumens: 4921.4 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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				
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°	174476
5°	176821
10°	183458
15°	199513
20°	223057
25°	234782
30°	206677
35°	143356
40°	85603
45°	40686
50°	15360
55°	6413
60°	2006
65°	1583
70°	978
75°	635
80°	947
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.3	6.3
10°-20°	1009.4	20.5
20°-30°	1729.6	35.1
30°-40°	1343.3	27.3
40°-50°	444.1	9.0
50°-60°	68.1	1.4
60°-70°	12.0	0.2
70°-80°	4.4	0.1
80°-90°	1.2	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°	3048.3	61.9
0°-40°	4391.6	89.2
0°-60°	4903.7	99.6
0°-90°	4921.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4921.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3183	
5°	3213	309
15°	3515	1009
25°	3882	1730
35°	2142	1343
45°	525	444
55°	67	68
65°	12	12
75°	3	4
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3182.7
2.5°	3179.7
5°	3213.2
7.5°	3249.8
10°	3295.7
12.5°	3387.2
15°	3515.4
17.5°	3670.9
20°	3823.5
22.5°	3912.1
25°	3881.5
27.5°	3670.9
30°	3265.0
32.5°	2718.9
35°	2142.1
37.5°	1626.5
40°	1196.2
42.5°	845.3
45°	524.8
47.5°	292.9
50°	180.1
52.5°	109.9
55°	67.1
57.5°	33.5
60°	18.3
62.5°	15.2
65°	12.2
67.5°	9.1
70°	6.1
72.5°	6.1
75°	3.0
77.5°	3.0
80°	3.0
82.5°	3.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)