

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: P593064

Luminaire Tested: **HC610D010-HM60525850-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525850-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1195.0 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

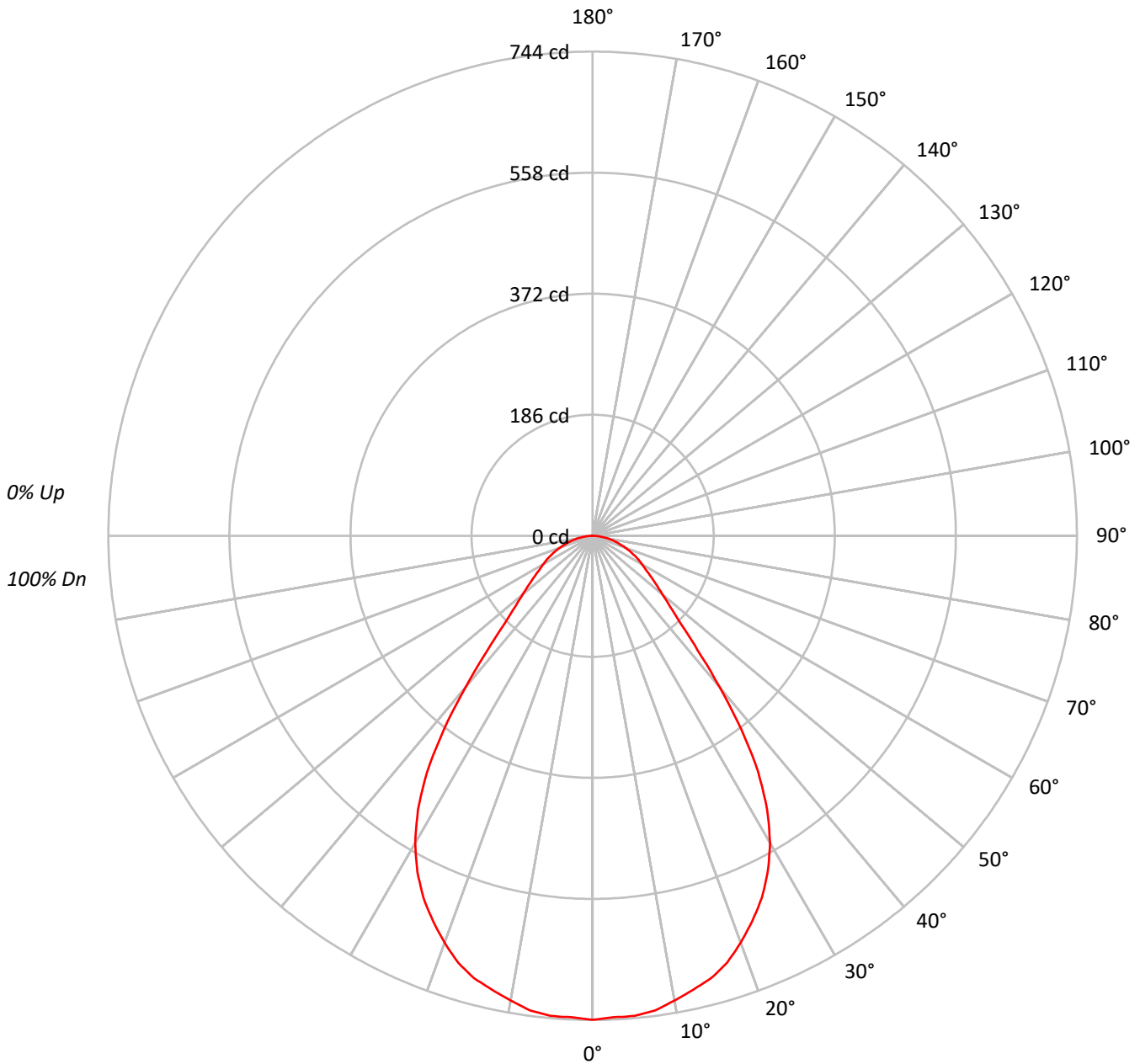
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			69
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56			56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	40775
5°	40755
10°	40358
15°	39943
20°	38813
25°	37176
30°	34505
35°	29680
40°	21669
45°	14847
50°	11931
55°	10399
60°	9604
65°	9132
70°	8527
75°	7985
80°	7229
85°	6164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	5.9
10°-20°	197.7	16.5
20°-30°	281.1	23.5
30°-40°	270.6	22.6
40°-50°	155.7	13.0
50°-60°	98.7	8.3
60°-70°	69.8	5.8
70°-80°	39.8	3.3
80°-90°	11.4	1.0
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°	549.0	45.9
0°-40°	819.6	68.6
0°-60°	1074.0	89.9
0°-90°	1195.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1195.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	744	
5°	741	70
15°	704	198
25°	615	281
35°	444	271
45°	192	156
55°	109	99
65°	70	70
75°	38	40
85°	10	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	743.8
2.5°	740.6
5°	740.6
7.5°	735.7
10°	725.0
12.5°	714.4
15°	703.8
17.5°	687.5
20°	665.3
22.5°	640.7
25°	614.6
27.5°	582.6
30°	545.1
32.5°	499.2
35°	443.5
37.5°	375.6
40°	302.8
42.5°	239.0
45°	191.5
47.5°	161.2
50°	139.9
52.5°	122.7
55°	108.8
57.5°	96.6
60°	87.6
62.5°	79.4
65°	70.4
67.5°	62.1
70°	53.2
72.5°	45.1
75°	37.7
77.5°	30.2
80°	22.9
82.5°	16.4
85°	9.8
87.5°	4.1
90°	0.0



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— 0°-180°







(END OF REPORT)