

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: P593060

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593060  
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: HC610D010-HM60525850-61WDC  
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**

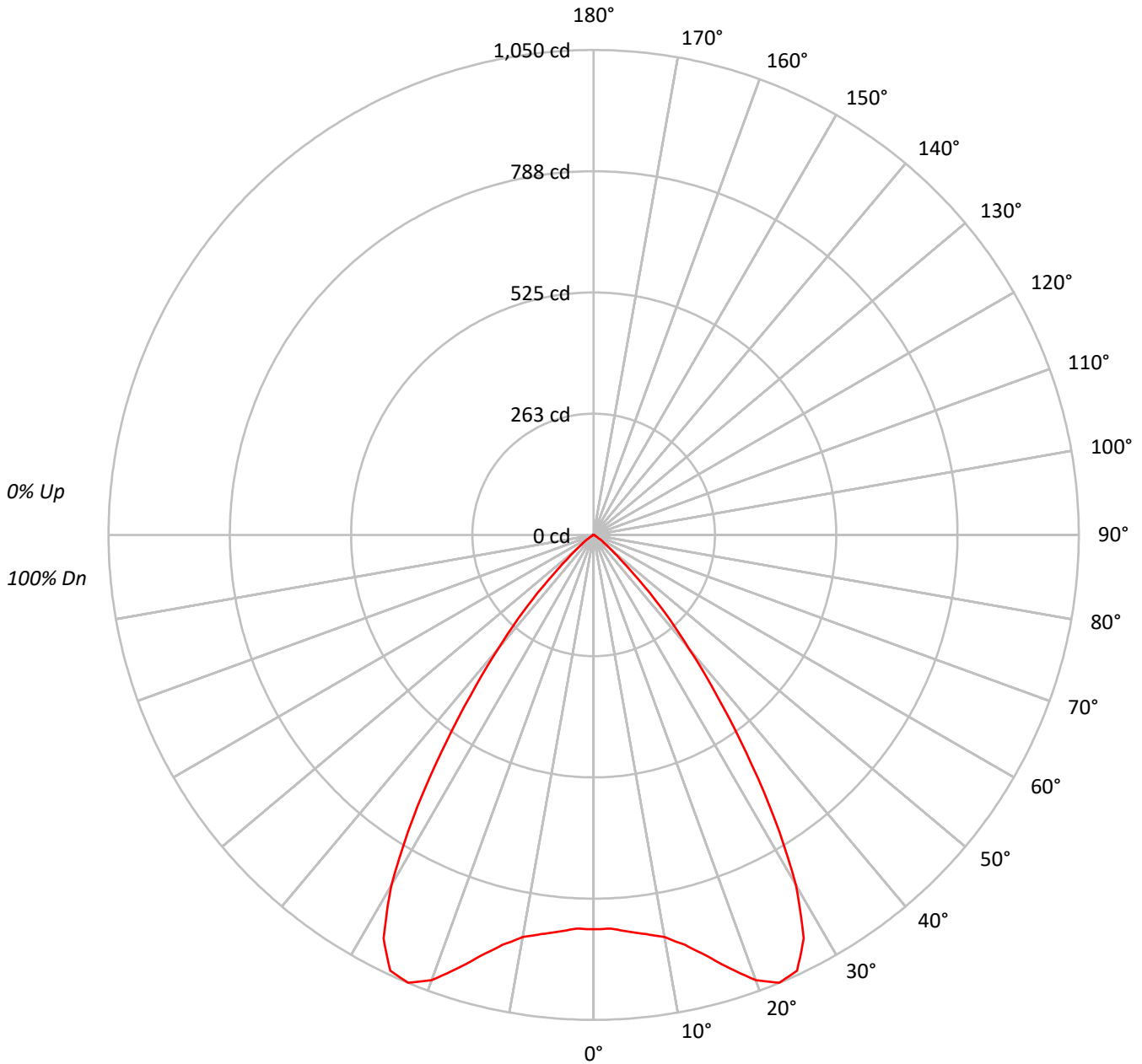
Lumens per Lamp: N/A  
Luminaire Lumens: 1320.2 lumens  
Efficiency: N/A  
Efficacy: 133.4 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
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									
RC	80									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	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93			93																
2	107	102	97	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85			85																
3	101	94	89	85	99	93	88	84	90	86	82	88	84	81	85	82	80	78			78																
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	74	72			72																
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66			66																
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61			61																
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	66	61	58	56			56																
8	76	65	59	54	74	65	59	54	64	58	54	62	57	54	61	57	53	52			52																
9	71	61	55	50	70	60	54	50	60	54	50	59	53	50	58	53	50	48			48																
10	68	57	51	47	67	57	51	47	56	50	46	55	50	46	54	50	46	45			45																

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	46805
5°	47435
10°	49214
15°	53525
20°	59838
25°	62979
30°	55445
35°	38454
40°	22964
45°	10916
50°	4119
55°	1720
60°	537
65°	428
70°	256
75°	169
80°	253
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.0	6.3
10°-20°	270.8	20.5
20°-30°	464.0	35.1
30°-40°	360.3	27.3
40°-50°	119.1	9.0
50°-60°	18.3	1.4
60°-70°	3.2	0.2
70°-80°	1.2	0.1
80°-90°	0.3	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°	817.7	61.9
0°-40°	1178.1	89.2
0°-60°	1315.5	99.6
0°-90°	1320.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1320.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	854	
5°	862	83
15°	943	271
25°	1041	464
35°	575	360
45°	141	119
55°	18	18
65°	3	3
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	853.8
2.5°	853.0
5°	862.0
7.5°	871.8
10°	884.1
12.5°	908.7
15°	943.1
17.5°	984.7
20°	1025.7
22.5°	1049.5
25°	1041.2
27.5°	984.7
30°	875.9
32.5°	729.3
35°	574.6
37.5°	436.3
40°	320.9
42.5°	226.7
45°	140.8
47.5°	78.6
50°	48.3
52.5°	29.4
55°	18.0
57.5°	9.1
60°	4.9
62.5°	4.1
65°	3.3
67.5°	2.5
70°	1.6
72.5°	1.6
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)