

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: P581587

Luminaire Tested: **HC6R10D010-HM60525835-62RMDC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581587  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC6R10D010-HM60525835-62RMDC  
Description: HALO COMMERCIAL 6" ROUND, RETROFIT FRAME, WITH 6" MEDIUM DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1249.7 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.08 / 0.96  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

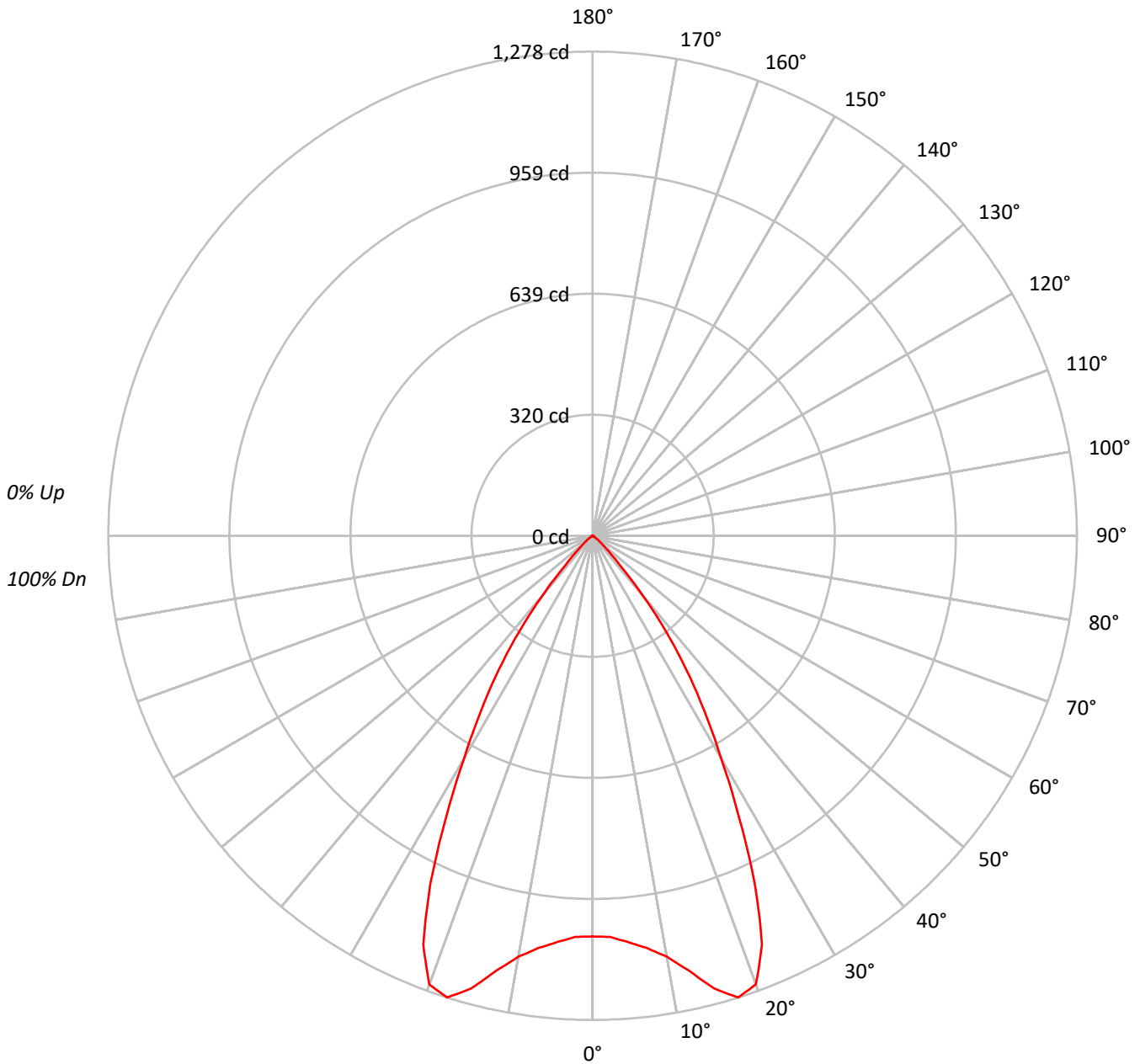
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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			
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	92	95	93	91	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	89	83	79	86	82	79	84	81	78	83	79	77	75			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70			
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65			
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	65	62	61			
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57			
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53			
10	72	62	56	52	71	61	56	52	60	55	52	60	55	52	59	55	51	50			

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

	0°
0°	57967
5°	59234
10°	62786
15°	70182
20°	73489
25°	61268
30°	42880
35°	28877
40°	14871
45°	5171
50°	2294
55°	755
60°	351
65°	311
70°	256
75°	169
80°	253
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.3	8.3
10°-20°	348.4	27.9
20°-30°	452.8	36.2
30°-40°	267.5	21.4
40°-50°	63.8	5.1
50°-60°	9.4	0.8
60°-70°	2.4	0.2
70°-80°	1.0	0.1
80°-90°	0.1	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°	905.6	72.5
0°-40°	1173.1	93.9
0°-60°	1246.3	99.7
0°-90°	1249.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1249.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1057	
5°	1076	104
15°	1237	348
25°	1013	453
35°	432	267
45°	67	64
55°	8	9
65°	2	2
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1057.4
2.5°	1059.8
5°	1076.4
7.5°	1097.8
10°	1127.9
12.5°	1175.6
15°	1236.6
17.5°	1277.9
20°	1259.7
22.5°	1167.7
25°	1012.9
27.5°	836.1
30°	677.4
32.5°	548.1
35°	431.5
37.5°	317.3
40°	207.8
42.5°	113.4
45°	66.7
47.5°	41.2
50°	26.9
52.5°	15.8
55°	7.9
57.5°	4.0
60°	3.2
62.5°	3.2
65°	2.4
67.5°	1.6
70°	1.6
72.5°	0.8
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)