

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: P582551

Luminaire Tested: **HC640D010-HM63040940-61WDC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582551  
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: HC640D010-HM63040940-61WDC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4647.3 lumens  
Efficiency: N/A  
Efficacy: 113.3 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

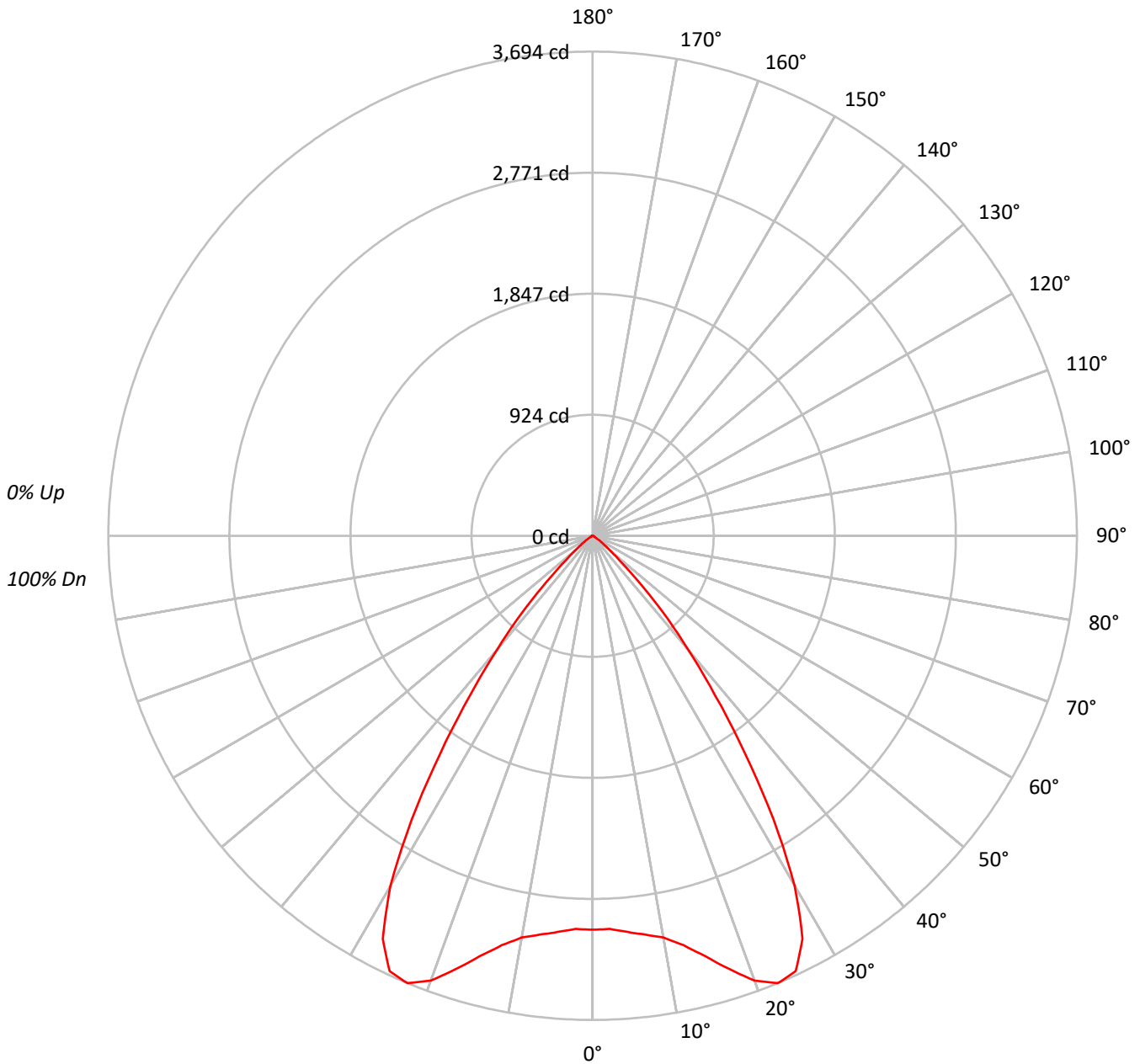
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	164751
5°	166971
10°	173227
15°	188389
20°	210631
25°	221698
30°	195169
35°	135372
40°	80837
45°	38415
50°	14498
55°	6060
60°	1897
65°	1492
70°	930
75°	614
80°	916
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.0	6.3
10°-20°	953.2	20.5
20°-30°	1633.3	35.1
30°-40°	1268.4	27.3
40°-50°	419.3	9.0
50°-60°	64.3	1.4
60°-70°	11.4	0.2
70°-80°	4.2	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°	2878.5	61.9
0°-40°	4146.9	89.2
0°-60°	4630.5	99.6
0°-90°	4647.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4647.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3005	
5°	3034	292
15°	3319	953
25°	3665	1633
35°	2023	1268
45°	496	419
55°	63	64
65°	12	11
75°	3	4
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3005.3
2.5°	3002.4
5°	3034.2
7.5°	3068.8
10°	3111.9
12.5°	3198.4
15°	3319.4
17.5°	3466.5
20°	3610.5
22.5°	3694.0
25°	3665.2
27.5°	3466.5
30°	3083.2
32.5°	2567.4
35°	2022.8
37.5°	1535.8
40°	1129.6
42.5°	798.1
45°	495.5
47.5°	276.6
50°	170.0
52.5°	103.7
55°	63.4
57.5°	31.7
60°	17.3
62.5°	14.4
65°	11.5
67.5°	8.7
70°	5.8
72.5°	5.8
75°	2.9
77.5°	2.9
80°	2.9
82.5°	2.9
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)