

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: P581324

Luminaire Tested: **HC460D010-HM44560840-41NDC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581324  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC460D010-HM44560840-41NDC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5785.8 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

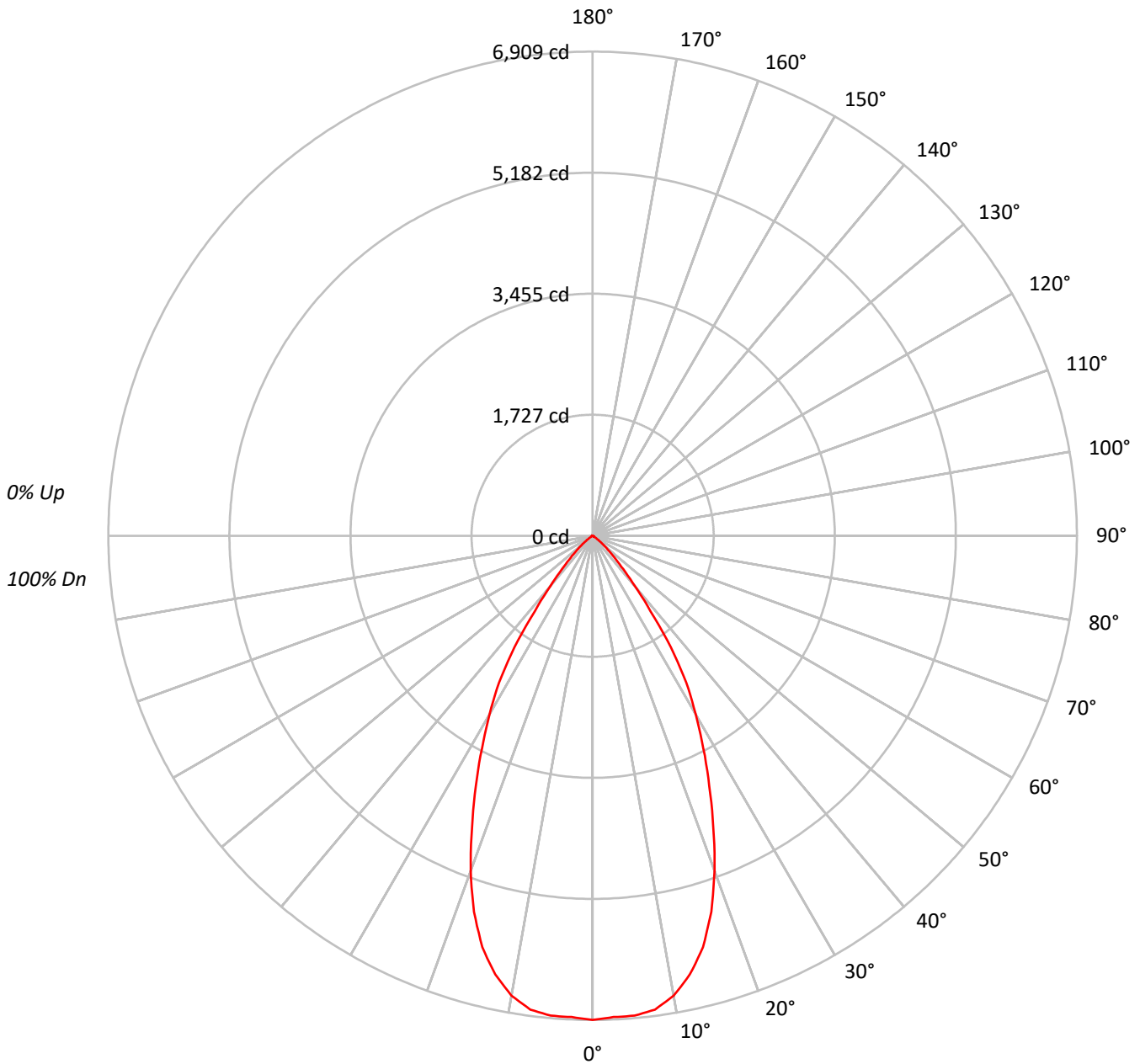
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	852183
5°	851079
10°	834505
15°	775950
20°	667334
25°	536085
30°	418551
35°	293023
40°	150389
45°	76351
50°	38244
55°	14279
60°	5797
65°	4582
70°	2813
75°	1859
80°	2770
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	649.9	11.2
10°-20°	1677.3	29.0
20°-30°	1807.0	31.2
30°-40°	1187.2	20.5
40°-50°	369.2	6.4
50°-60°	72.5	1.3
60°-70°	15.4	0.3
70°-80°	5.7	0.1
80°-90°	1.6	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°	4134.2	71.5
0°-40°	5321.4	92.0
0°-60°	5763.1	99.6
0°-90°	5785.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5785.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6909	
5°	6874	650
15°	6076	1677
25°	3939	1807
35°	1946	1187
45°	438	369
55°	66	72
65°	16	15
75°	4	6
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	6908.9
2.5°	6873.7
5°	6873.7
7.5°	6819.0
10°	6662.8
12.5°	6412.7
15°	6076.5
17.5°	5627.1
20°	5084.0
22.5°	4497.8
25°	3939.0
27.5°	3419.3
30°	2938.7
32.5°	2485.3
35°	1946.0
37.5°	1356.0
40°	934.0
42.5°	644.8
45°	437.7
47.5°	297.0
50°	199.3
52.5°	125.1
55°	66.4
57.5°	27.4
60°	23.5
62.5°	19.5
65°	15.7
67.5°	11.7
70°	7.8
72.5°	7.8
75°	3.9
77.5°	3.9
80°	3.9
82.5°	3.9
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)