

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: P581285

Luminaire Tested: **HC460D010-HM44560830-41WDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC460D010-HM44560830-41WDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5447.3 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

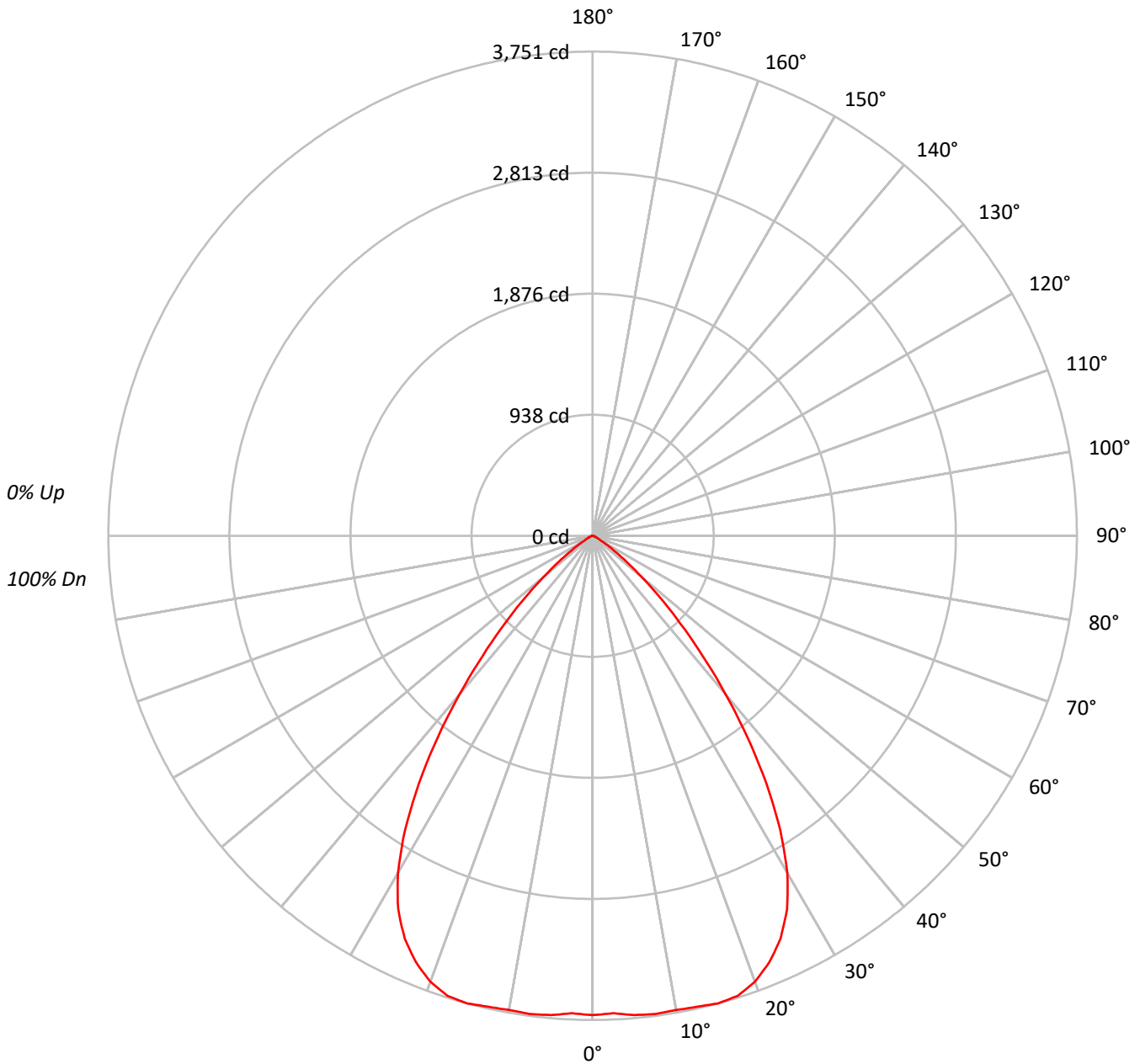
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84	84	84	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76	76	76	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69	69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63	63	63	63
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58	58	58	58
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53	53	53	53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	49
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42	42	42	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	458007
5°	461440
10°	467202
15°	478940
20°	482465
25°	468636
30°	429689
35°	353555
40°	257723
45°	167285
50°	94315
55°	44773
60°	17663
65°	10974
70°	7393
75°	4909
80°	2415
85°	4812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.9	6.5
10°-20°	1057.4	19.4
20°-30°	1568.3	28.8
30°-40°	1448.6	26.6
40°-50°	756.4	13.9
50°-60°	207.3	3.8
60°-70°	39.9	0.7
70°-80°	11.2	0.2
80°-90°	2.3	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°	2981.6	54.7
0°-40°	4430.1	81.3
0°-60°	5393.8	99.0
0°-90°	5447.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5447.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3713	
5°	3727	356
15°	3751	1057
25°	3443	1568
35°	2348	1449
45°	959	756
55°	208	207
65°	38	40
75°	10	11
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3713.2
2.5°	3702.9
5°	3726.8
7.5°	3737.0
10°	3730.2
12.5°	3737.0
15°	3750.6
17.5°	3737.0
20°	3675.6
22.5°	3576.5
25°	3443.4
27.5°	3262.6
30°	3016.9
32.5°	2706.3
35°	2348.0
37.5°	1972.5
40°	1600.6
42.5°	1259.3
45°	959.0
47.5°	703.1
50°	491.5
52.5°	327.6
55°	208.2
57.5°	122.8
60°	71.6
62.5°	51.2
65°	37.6
67.5°	27.3
70°	20.5
72.5°	13.6
75°	10.3
77.5°	6.9
80°	3.4
82.5°	3.4
85°	3.4
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)