

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: P581299

Luminaire Tested: **HC460D010-HM44560835-41WDBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC460D010-HM44560835-41WDBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4447.7 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.03
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

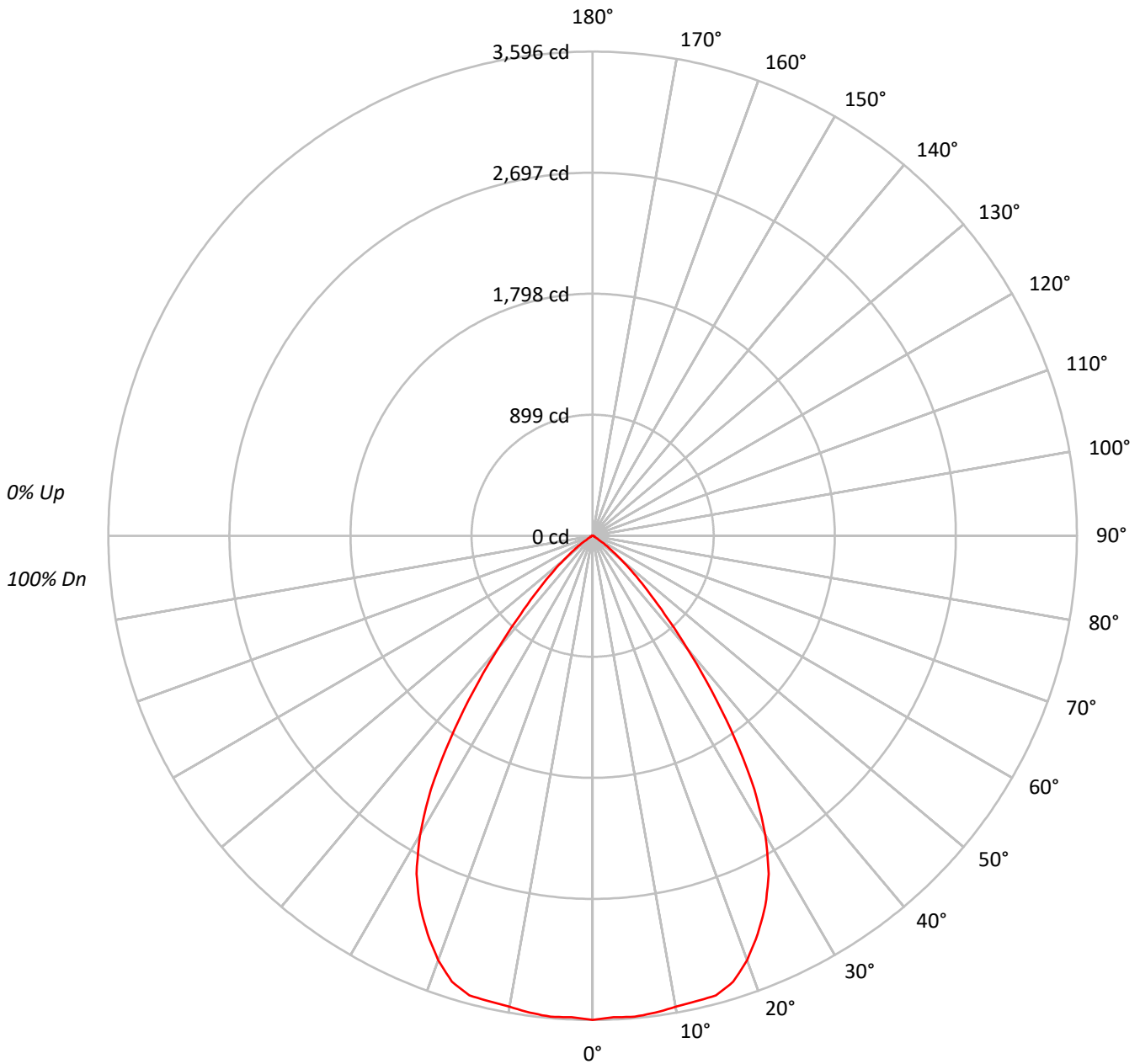
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	84	99	93	88	84	90	86	82	87	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	73	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	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56	56	56	56
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52	52	52	52
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49	49	49	49
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45	45	45	45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	443563
5°	443982
10°	444820
15°	451332
20°	440094
25°	412904
30°	365226
35°	277710
40°	174976
45°	100476
50°	53288
55°	22128
60°	5921
65°	4991
70°	3715
75°	3288
80°	2415
85°	4812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.0	7.7
10°-20°	989.7	22.3
20°-30°	1381.2	31.1
30°-40°	1136.6	25.6
40°-50°	468.2	10.5
50°-60°	105.5	2.4
60°-70°	16.9	0.4
70°-80°	6.3	0.1
80°-90°	2.3	0.1
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°	2711.9	61.0
0°-40°	3848.5	86.5
0°-60°	4422.1	99.4
0°-90°	4447.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4447.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3596	
5°	3586	341
15°	3534	990
25°	3034	1381
35°	1844	1137
45°	576	468
55°	103	105
65°	17	17
75°	7	6
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3596.1
2.5°	3578.9
5°	3585.8
7.5°	3572.2
10°	3551.5
12.5°	3541.2
15°	3534.4
17.5°	3472.7
20°	3352.8
22.5°	3201.8
25°	3033.9
27.5°	2831.6
30°	2564.3
32.5°	2235.1
35°	1844.3
37.5°	1450.2
40°	1086.7
42.5°	791.9
45°	576.0
47.5°	411.4
50°	277.7
52.5°	174.8
55°	102.9
57.5°	51.4
60°	24.0
62.5°	20.5
65°	17.1
67.5°	13.8
70°	10.3
72.5°	6.9
75°	6.9
77.5°	3.4
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)