

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: P581292

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC460D010-HM44560830-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4823.1 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

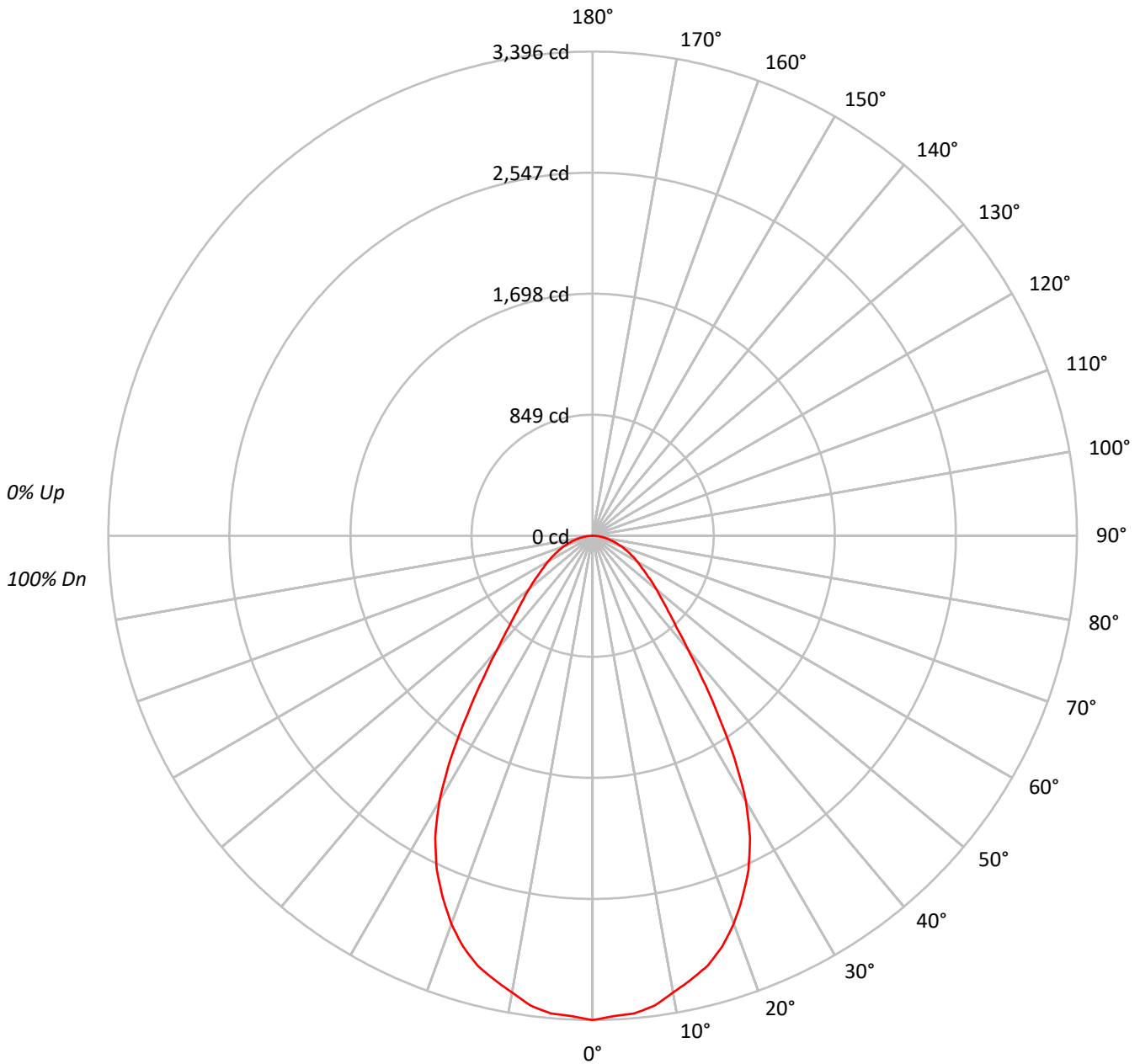
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	418931
5°	416309
10°	407471
15°	398440
20°	380016
25°	351783
30°	305991
35°	231061
40°	167457
45°	130863
50°	111911
55°	96814
60°	89179
65°	81604
70°	76239
75°	69865
80°	65349
85°	62695



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.6	6.6
10°-20°	874.0	18.1
20°-30°	1175.3	24.4
30°-40°	966.4	20.0
40°-50°	593.5	12.3
50°-60°	410.7	8.5
60°-70°	280.0	5.8
70°-80°	156.0	3.2
80°-90°	49.6	1.0
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°	2366.9	49.1
0°-40°	3333.3	69.1
0°-60°	4337.5	89.9
0°-90°	4823.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4823.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3396	
5°	3362	318
15°	3120	874
25°	2585	1175
35°	1534	966
45°	750	593
55°	450	411
65°	280	280
75°	147	156
85°	44	50
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3396.4
2.5°	3372.6
5°	3362.3
7.5°	3324.8
10°	3253.3
12.5°	3188.4
15°	3120.2
17.5°	3021.3
20°	2895.1
22.5°	2745.1
25°	2584.8
27.5°	2390.5
30°	2148.4
32.5°	1851.7
35°	1534.5
37.5°	1261.8
40°	1040.0
42.5°	869.6
45°	750.2
47.5°	658.2
50°	583.2
52.5°	514.9
55°	450.2
57.5°	402.4
60°	361.5
62.5°	320.6
65°	279.6
67.5°	245.6
70°	211.4
72.5°	177.3
75°	146.6
77.5°	116.0
80°	92.0
82.5°	68.2
85°	44.3
87.5°	23.9
90°	0.0



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— 0°-180°







(END OF REPORT)