

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: P581400

Luminaire Tested: **HC460D010-HM44560940-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581400
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-HM44560940-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4223.0 lumens
Efficiency: N/A
Efficacy: 76.8 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

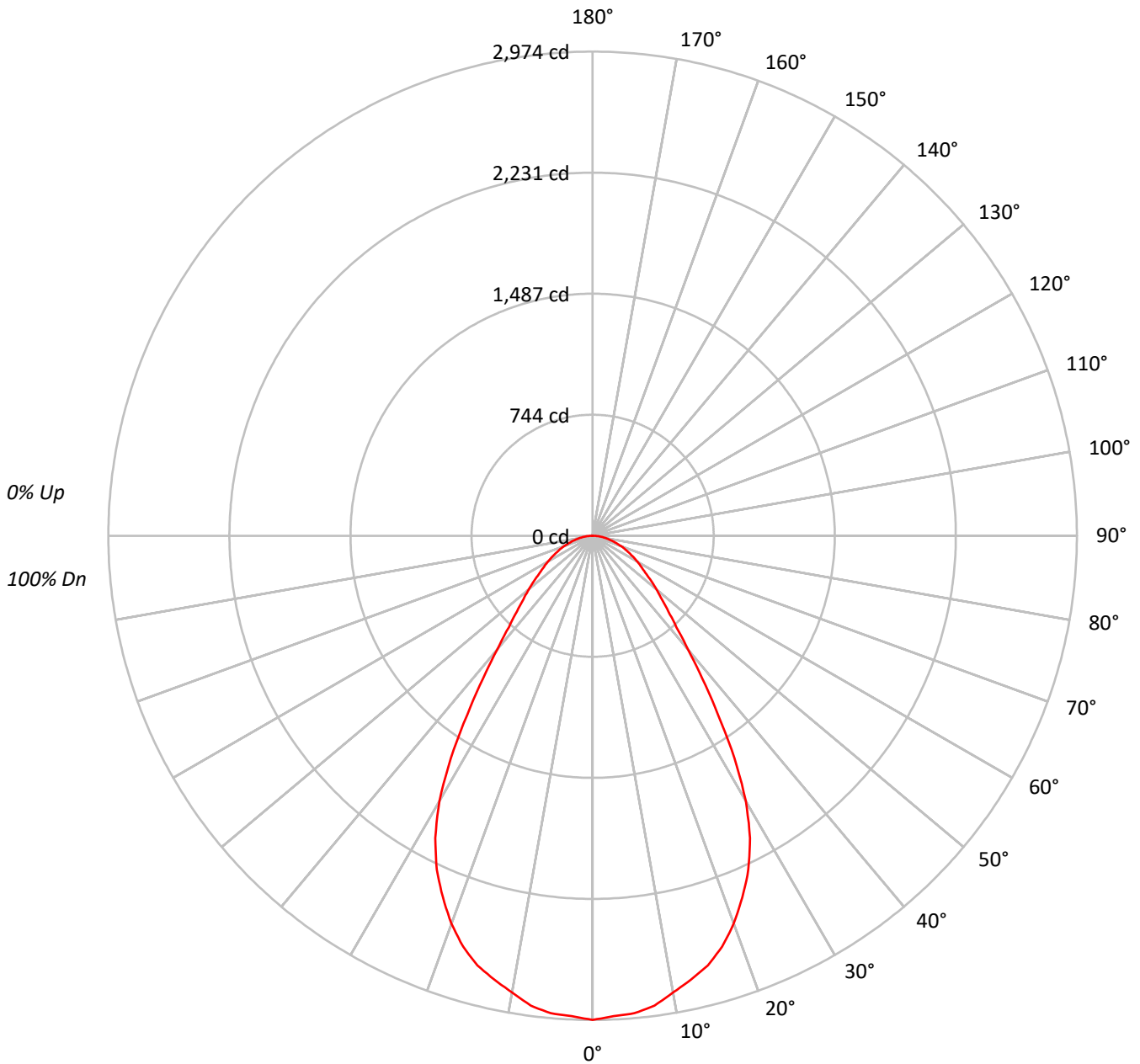
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	366818
5°	364517
10°	356758
15°	348868
20°	332748
25°	308014
30°	267920
35°	202316
40°	146621
45°	114570
50°	97961
55°	84750
60°	78078
65°	71477
70°	66754
75°	61192
80°	57323
85°	54911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.0	6.6
10°-20°	765.3	18.1
20°-30°	1029.0	24.4
30°-40°	846.2	20.0
40°-50°	519.6	12.3
50°-60°	359.6	8.5
60°-70°	245.2	5.8
70°-80°	136.6	3.2
80°-90°	43.5	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°	2072.4	49.1
0°-40°	2918.5	69.1
0°-60°	3797.8	89.9
0°-90°	4223.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4223.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2974	
5°	2944	278
15°	2732	765
25°	2263	1029
35°	1344	846
45°	657	520
55°	394	360
65°	245	245
75°	128	137
85°	39	43
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2973.9
2.5°	2952.9
5°	2944.0
7.5°	2911.1
10°	2848.4
12.5°	2791.7
15°	2732.0
17.5°	2645.4
20°	2535.0
22.5°	2403.5
25°	2263.2
27.5°	2093.0
30°	1881.1
32.5°	1621.3
35°	1343.6
37.5°	1104.8
40°	910.6
42.5°	761.4
45°	656.8
47.5°	576.3
50°	510.5
52.5°	450.9
55°	394.1
57.5°	352.3
60°	316.5
62.5°	280.6
65°	244.9
67.5°	215.0
70°	185.1
72.5°	155.2
75°	128.4
77.5°	101.5
80°	80.7
82.5°	59.7
85°	38.8
87.5°	20.9
90°	0.0



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— 0°-180°







(END OF REPORT)