

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: P581374

Luminaire Tested: **HC460D010-HM44560935-41NDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC460D010-HM44560935-41NDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4177.8 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

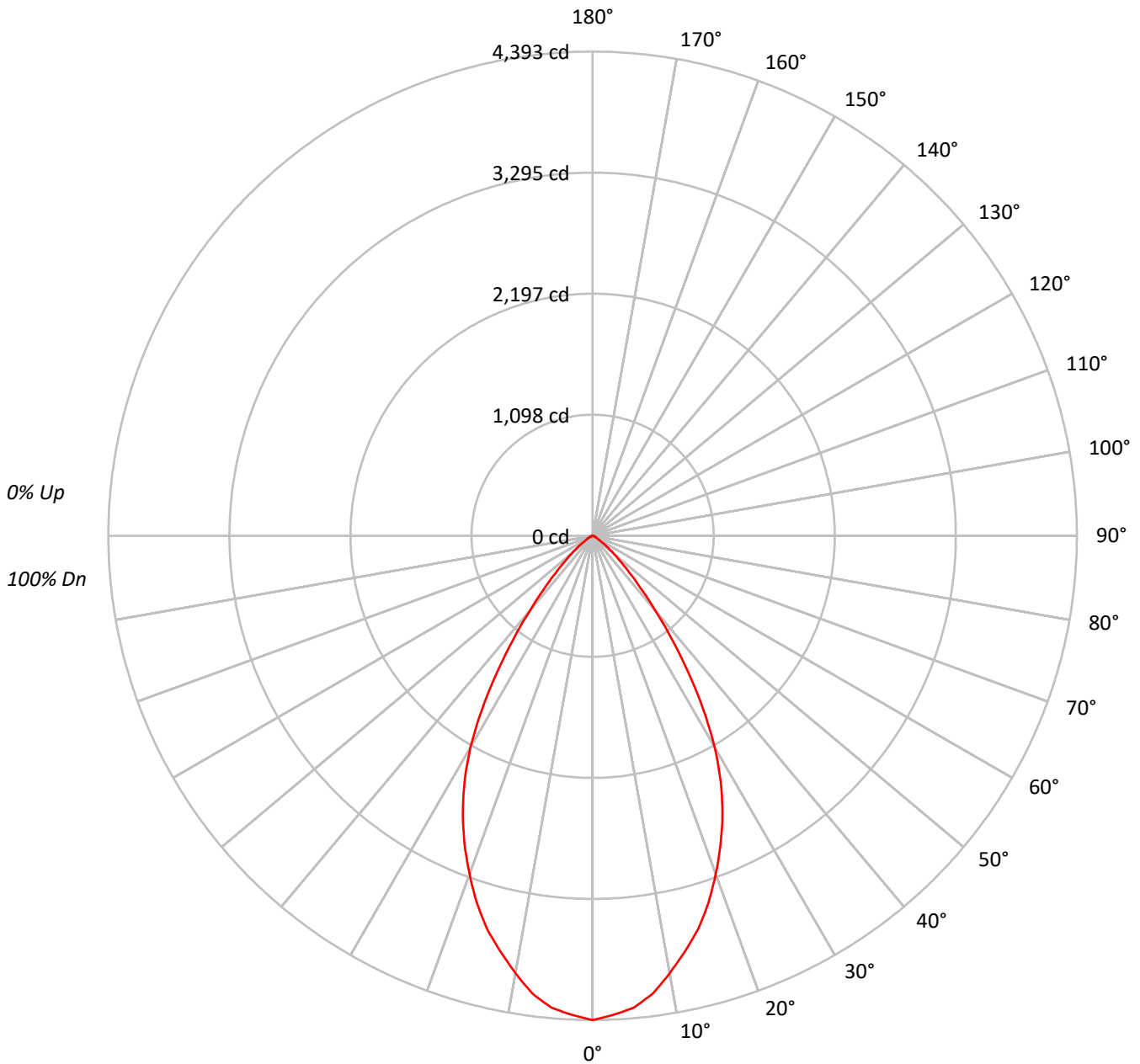
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86	86	86	86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	79	79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	63	63	63	63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54	54	54	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51	51	51	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48	48	48	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	541882
5°	532041
10°	504638
15°	471852
20°	428556
25°	379220
30°	315434
35°	227447
40°	141952
45°	81881
50°	46188
55°	21999
60°	12606
65°	9661
70°	6491
75°	4289
80°	4262
85°	4246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.6	9.6
10°-20°	1030.8	24.7
20°-30°	1267.8	30.3
30°-40°	941.5	22.5
40°-50°	382.8	9.2
50°-60°	106.0	2.5
60°-70°	33.0	0.8
70°-80°	11.1	0.3
80°-90°	3.3	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°	2700.2	64.6
0°-40°	3641.8	87.2
0°-60°	4130.5	98.9
0°-90°	4177.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4177.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4393	
5°	4297	402
15°	3695	1031
25°	2786	1268
35°	1510	942
45°	469	383
55°	102	106
65°	33	33
75°	9	11
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4393.2
2.5°	4351.1
5°	4297.0
7.5°	4188.6
10°	4029.1
12.5°	3863.6
15°	3695.1
17.5°	3493.5
20°	3264.9
22.5°	3033.2
25°	2786.4
27.5°	2518.6
30°	2214.7
32.5°	1868.6
35°	1510.5
37.5°	1173.6
40°	881.6
42.5°	644.0
45°	469.4
47.5°	337.0
50°	240.7
52.5°	165.5
55°	102.3
57.5°	66.2
60°	51.1
62.5°	42.1
65°	33.1
67.5°	24.0
70°	18.0
72.5°	15.0
75°	9.0
77.5°	6.0
80°	6.0
82.5°	3.0
85°	3.0
87.5°	3.0
90°	0.0



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— 0°-180°







(END OF REPORT)