

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: P581375

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581375
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-HM44560935-41WDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4807.0 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

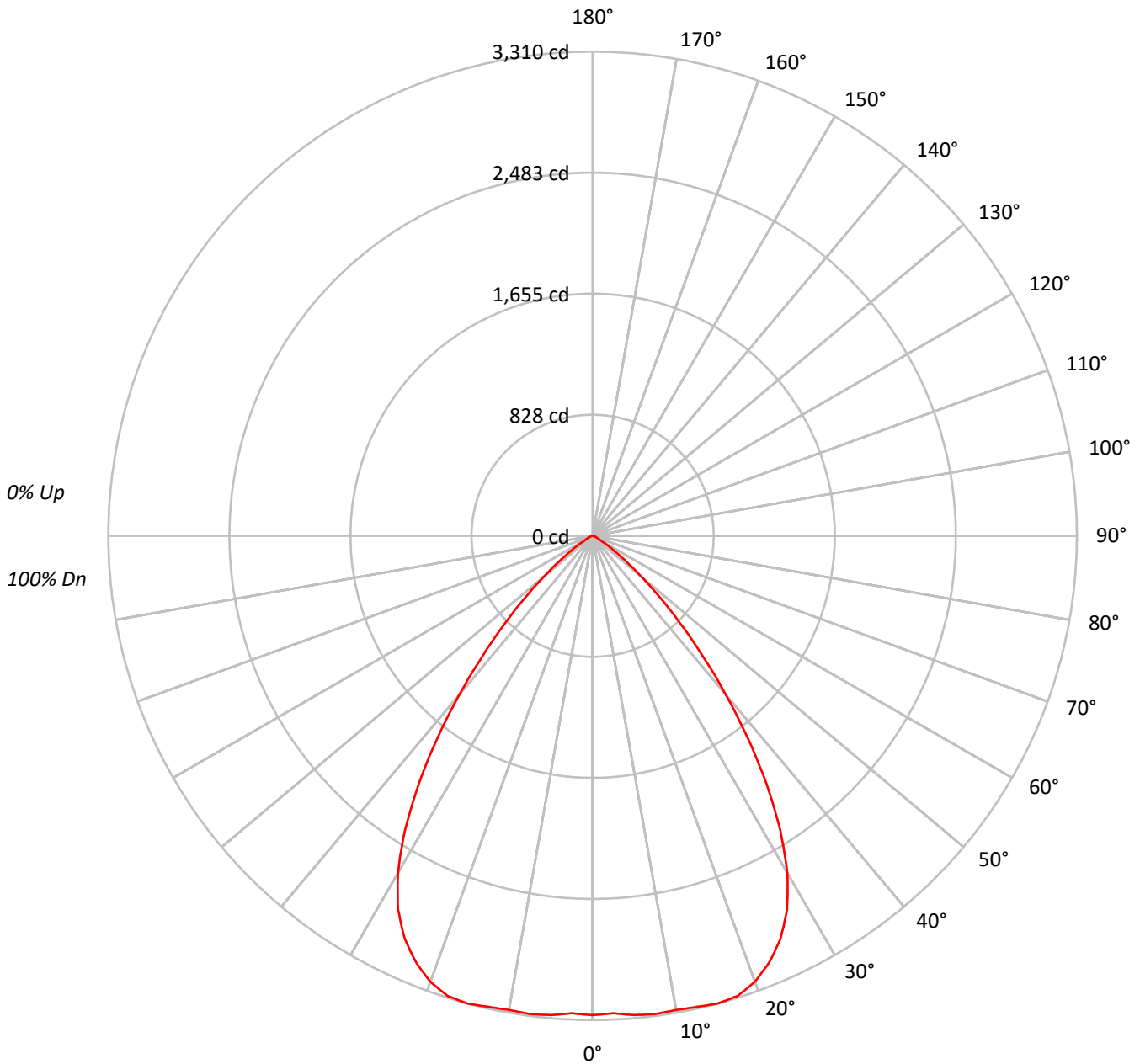
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92			92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84			84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76			76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69			69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63			63
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58			58
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53			53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49			49
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45			45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42			42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	404154
5°	407196
10°	412280
15°	422651
20°	425760
25°	413557
30°	379184
35°	311996
40°	227435
45°	147609
50°	83223
55°	39526
60°	15616
65°	9690
70°	6491
75°	4289
80°	2131
85°	4246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.0	6.5
10°-20°	933.1	19.4
20°-30°	1384.0	28.8
30°-40°	1278.3	26.6
40°-50°	667.5	13.9
50°-60°	183.0	3.8
60°-70°	35.2	0.7
70°-80°	9.9	0.2
80°-90°	2.0	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°	2631.1	54.7
0°-40°	3909.4	81.3
0°-60°	4759.8	99.0
0°-90°	4807.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4807.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3277	
5°	3289	314
15°	3310	933
25°	3039	1384
35°	2072	1278
45°	846	667
55°	184	183
65°	33	35
75°	9	10
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3276.6
2.5°	3267.6
5°	3288.7
7.5°	3297.7
10°	3291.7
12.5°	3297.7
15°	3309.8
17.5°	3297.7
20°	3243.6
22.5°	3156.1
25°	3038.7
27.5°	2879.1
30°	2662.3
32.5°	2388.2
35°	2072.0
37.5°	1740.7
40°	1412.5
42.5°	1111.3
45°	846.2
47.5°	620.4
50°	433.7
52.5°	289.1
55°	183.8
57.5°	108.4
60°	63.3
62.5°	45.1
65°	33.2
67.5°	24.1
70°	18.0
72.5°	12.1
75°	9.0
77.5°	6.0
80°	3.0
82.5°	3.0
85°	3.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)