

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: P593865

Luminaire Tested: **HC860D010-HM86080850-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC860D010-HM86080850-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5837.6 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

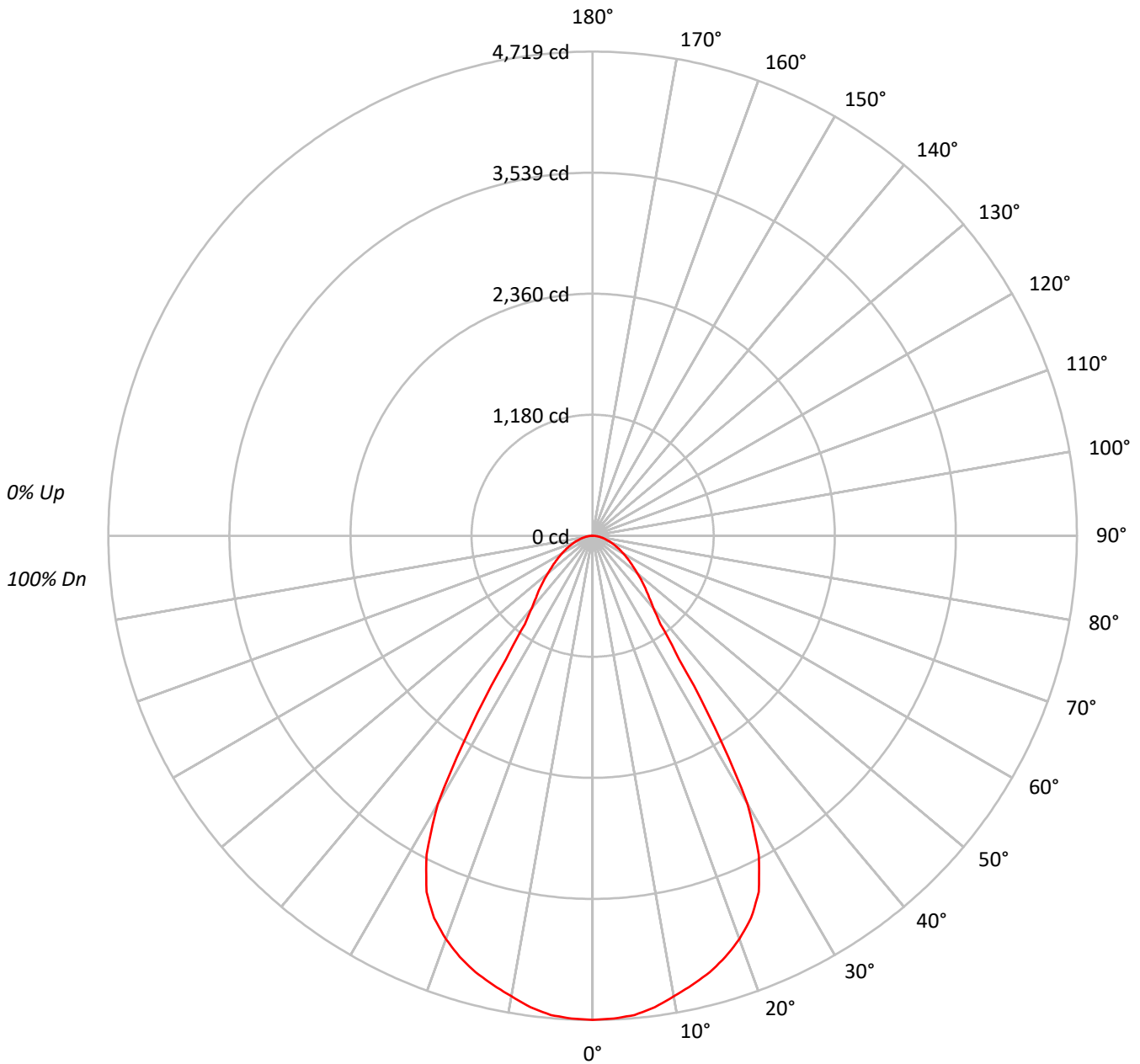
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			81
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			73
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			56
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			48
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			45
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	145507
5°	145119
10°	142698
15°	140616
20°	137244
25°	130282
30°	107457
35°	55326
40°	37042
45°	31761
50°	27407
55°	23918
60°	21246
65°	19095
70°	17302
75°	15584
80°	13940
85°	13869



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.3	7.6
10°-20°	1239.3	21.2
20°-30°	1717.1	29.4
30°-40°	1031.4	17.7
40°-50°	564.6	9.7
50°-60°	401.1	6.9
60°-70°	260.4	4.5
70°-80°	139.1	2.4
80°-90°	41.5	0.7
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°	3399.6	58.2
0°-40°	4430.9	75.9
0°-60°	5396.6	92.4
0°-90°	5837.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5837.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4719	
5°	4688	443
15°	4405	1239
25°	3829	1717
35°	1470	1031
45°	728	565
55°	445	401
65°	262	260
75°	131	139
85°	39	42
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4718.7
2.5°	4710.0
5°	4688.2
7.5°	4635.9
10°	4557.3
12.5°	4483.3
15°	4404.7
17.5°	4304.4
20°	4182.3
22.5°	4034.0
25°	3829.1
27.5°	3506.3
30°	3017.9
32.5°	2211.1
35°	1469.7
37.5°	1085.9
40°	920.2
42.5°	815.6
45°	728.3
47.5°	645.4
50°	571.3
52.5°	501.5
55°	444.9
57.5°	392.5
60°	344.5
62.5°	300.9
65°	261.7
67.5°	222.4
70°	191.9
72.5°	157.0
75°	130.8
77.5°	104.6
80°	78.5
82.5°	56.7
85°	39.2
87.5°	17.4
90°	0.0



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— 0°-180°







(END OF REPORT)