

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: P585149

Luminaire Tested: **HC860D010-HM86080930-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC860D010-HM86080930-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5350.6 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

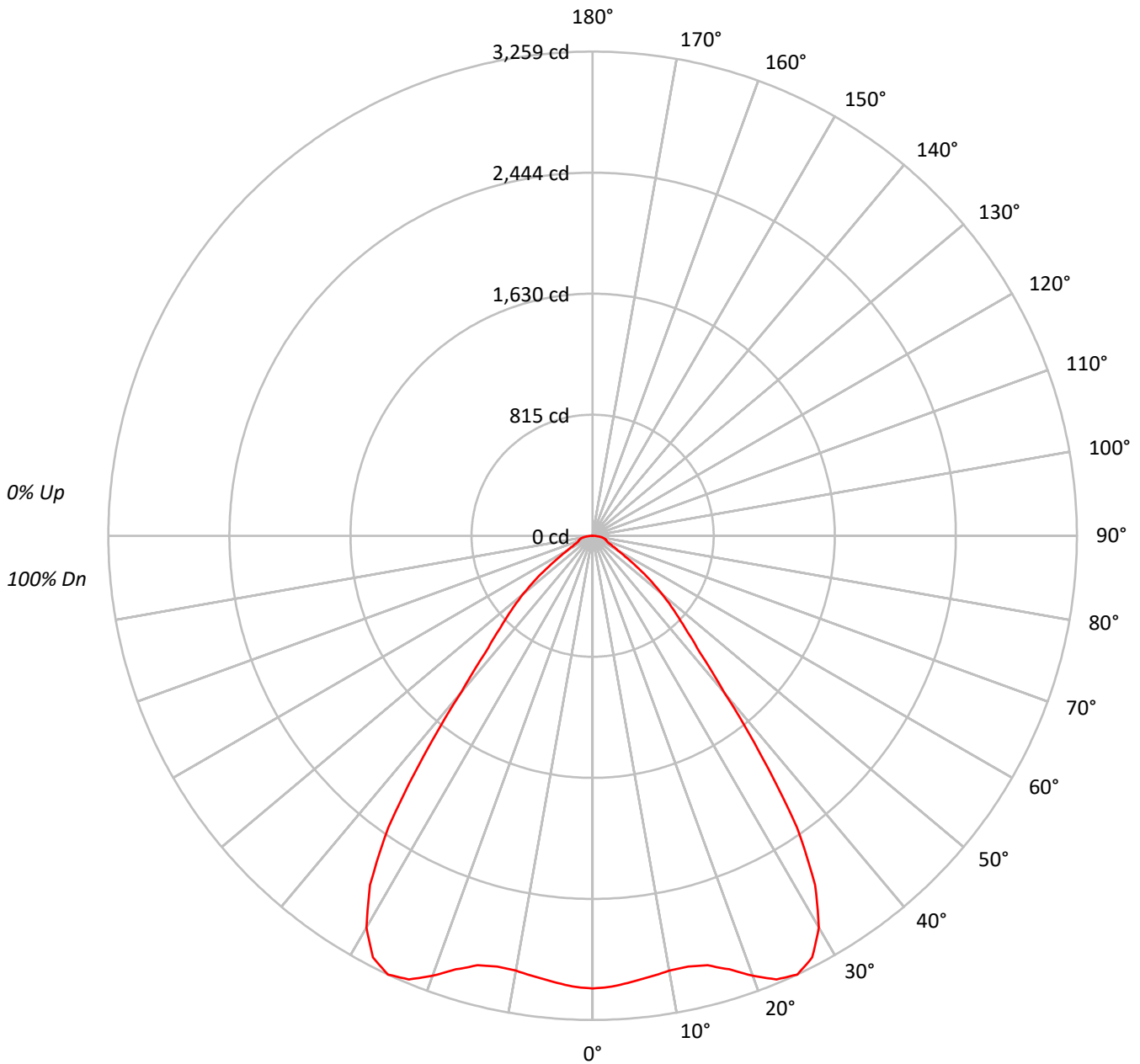
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P585149

CATALOG NUMBER: HC860D010-HM86080930-81WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P585149

CATALOG NUMBER: HC860D010-HM86080930-81WDWB

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	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	93971
5°	93324
10°	93081
15°	95523
20°	103411
25°	110871
30°	108390
35°	90256
40°	55450
45°	38393
50°	29297
55°	19209
60°	12020
65°	9004
70°	9079
75°	10461
80°	11525
85°	10367



TEST NUMBER: P585149

CATALOG NUMBER: HC860D010-HM86080930-81WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.5	5.4
10°-20°	858.9	16.1
20°-30°	1478.7	27.6
30°-40°	1432.6	26.8
40°-50°	705.6	13.2
50°-60°	333.0	6.2
60°-70°	131.2	2.5
70°-80°	90.5	1.7
80°-90°	33.6	0.6
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°	2624.1	49.0
0°-40°	4056.7	75.8
0°-60°	5095.3	95.2
0°-90°	5350.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5350.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3047	
5°	3015	286
15°	2992	859
25°	3259	1479
35°	2398	1433
45°	880	706
55°	357	333
65°	123	131
75°	88	91
85°	29	34
90°	0	



TEST NUMBER: P585149

CATALOG NUMBER: HC860D010-HM86080930-81WDWB

CANDELA DISTRIBUTION (FULL):

0°	
0°	3047.4
2.5°	3037.6
5°	3014.9
7.5°	2992.2
10°	2972.7
12.5°	2969.4
15°	2992.2
17.5°	3060.3
20°	3151.3
22.5°	3232.5
25°	3258.6
27.5°	3200.1
30°	3044.1
32.5°	2787.4
35°	2397.6
37.5°	1861.6
40°	1377.5
42.5°	1068.9
45°	880.4
47.5°	740.7
50°	610.7
52.5°	480.9
55°	357.3
57.5°	259.9
60°	194.9
62.5°	152.7
65°	123.4
67.5°	107.3
70°	100.7
72.5°	94.2
75°	87.8
77.5°	78.0
80°	64.9
82.5°	48.8
85°	29.3
87.5°	13.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)