

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: P585207

Luminaire Tested: **HC880D010-HM86080830-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC880D010-HM86080830-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6140.0 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

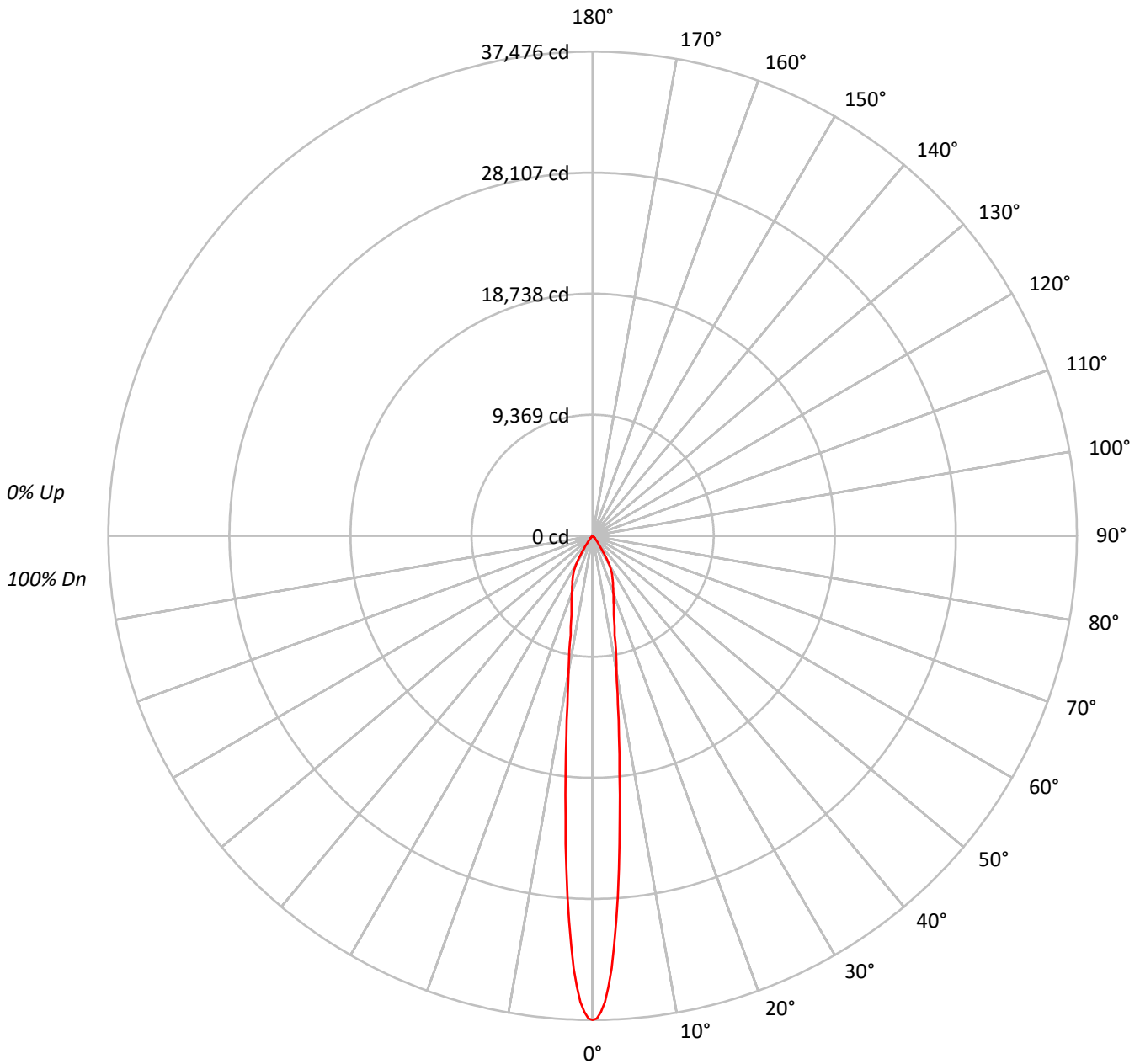
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P585207

CATALOG NUMBER: HC880D010-HM86080830-81NDC

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	115	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96			
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91			
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87			
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83			
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71			
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68			
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1155625
5°	741242
10°	334848
15°	202038
20°	153963
25°	124331
30°	91107
35°	32988
40°	12314
45°	5591
50°	1785
55°	446
60°	259
65°	306
70°	0
75°	0
80°	746
85°	1486



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1826.4	29.7
10°-20°	1855.1	30.2
20°-30°	1660.6	27.0
30°-40°	668.9	10.9
40°-50°	109.7	1.8
50°-60°	10.0	0.2
60°-70°	3.6	0.1
70°-80°	2.8	0.0
80°-90°	4.0	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°	5342.0	87.0
0°-40°	6010.9	97.9
0°-60°	6130.6	99.8
0°-90°	6141.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6140.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	37476	
5°	23946	###
15°	6329	1855
25°	3654	1661
35°	876	669
45°	128	110
55°	8	10
65°	4	4
75°	0	3
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	37476.1
0.5°	37360.3
1°	36876.7
1.5°	36099.6
2°	34921.4
2.5°	33528.4
3°	31784.0
3.5°	29870.1
4°	27976.8
4.5°	25856.2
5°	23946.5
5.5°	21867.3
6°	20180.7
6.5°	18423.9
7°	17043.2
7.5°	15584.0
8°	14410.1
8.5°	13231.9
9°	12347.3
9.5°	11371.8
10°	10693.9
12.5°	7887.1
15°	6328.7
17.5°	5406.9
20°	4691.8
22.5°	4121.3
25°	3654.2
27.5°	3187.1
30°	2558.7
32.5°	1645.2
35°	876.3
37.5°	483.7
40°	305.9
42.5°	202.6
45°	128.2
47.5°	78.6
50°	37.2
52.5°	12.4
55°	8.3
57.5°	4.2
60°	4.2
62.5°	4.2
65°	4.2



TEST NUMBER: P585207

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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	4.2
80°	4.2
82.5°	4.2
85°	4.2
87.5°	4.2
90°	0.0



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— 0°-180°







67.5°		4.2
70°		0.0



(END OF REPORT)