

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: P585293

Luminaire Tested: **HC880D010-HM86080935-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC880D010-HM86080935-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" 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: 5974.2 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

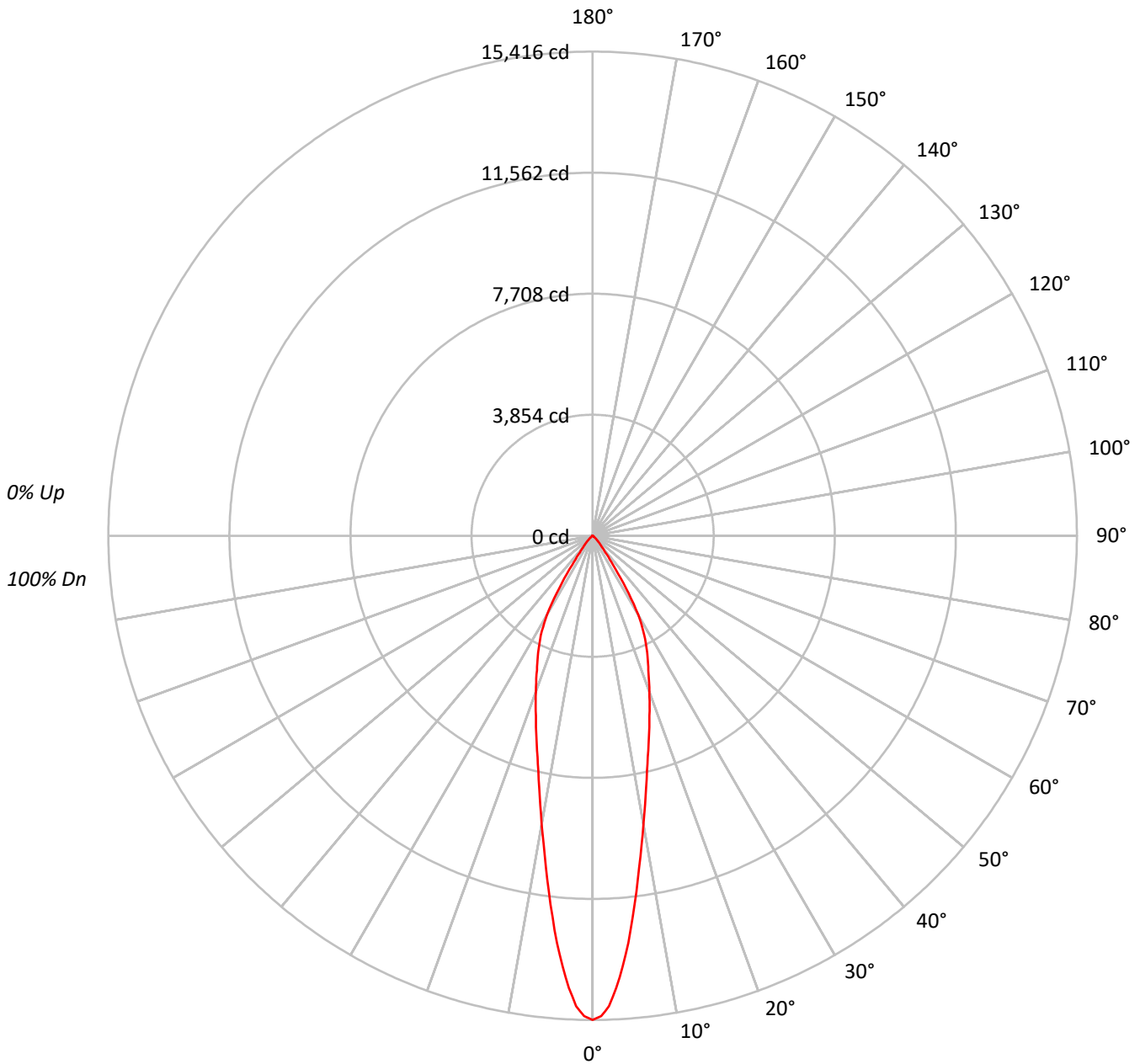
Input Watts (W): 70
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95	95	95	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89	89	89	89
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84	84	84	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80	80	80	80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75	75	75	75
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72	72	72	72
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68	68	68	68
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65	65	65	65
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62	62	62	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59	59	59	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	475373
5°	402741
10°	292207
15°	219437
20°	173140
25°	139659
30°	103494
35°	41932
40°	17684
45°	9485
50°	4255
55°	2150
60°	1369
65°	970
70°	802
75°	524
80°	781
85°	1557



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1117.1	18.7
10°-20°	1930.6	32.3
20°-30°	1866.6	31.2
30°-40°	819.8	13.7
40°-50°	177.2	3.0
50°-60°	39.8	0.7
60°-70°	13.7	0.2
70°-80°	5.2	0.1
80°-90°	4.2	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°	4914.3	82.3
0°-40°	5734.1	96.0
0°-60°	5951.1	99.6
0°-90°	5974.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5974.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15416	
5°	13011	###
15°	6874	1931
25°	4105	1867
35°	1114	820
45°	218	177
55°	40	40
65°	13	14
75°	4	5
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	15416.0
1°	15300.6
2°	14985.6
3°	14417.6
4°	13738.7
5°	13010.9
6°	12216.5
7°	11417.7
8°	10667.8
9°	9971.2
10°	9332.1
11°	8728.7
12°	8187.2
13°	7694.7
14°	7259.8
15°	6873.7
17.5°	6008.4
20°	5276.2
22.5°	4632.8
25°	4104.7
27.5°	3567.8
30°	2906.6
32.5°	1974.7
35°	1113.9
37.5°	656.8
40°	439.3
42.5°	310.7
45°	217.5
47.5°	142.0
50°	88.7
52.5°	53.3
55°	40.0
57.5°	31.0
60°	22.2
62.5°	17.7
65°	13.3
67.5°	8.9
70°	8.9
72.5°	4.4
75°	4.4
77.5°	4.4
80°	4.4
82.5°	4.4



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°		4.4
87.5°		4.4



(END OF REPORT)