Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P585275

Luminaire Tested: **HC880D010-HM86080930-81NDC**

Issue Date: 10/21/2021

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Scaled Data Report

Test Information

Test Method:	LM-41-14
Report Number:	P585275
	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-HM86080930-81NDC
Description:	HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source:	(1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5762.7 lumens
Efficiency:	N/A
Efficacy:	82.3 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

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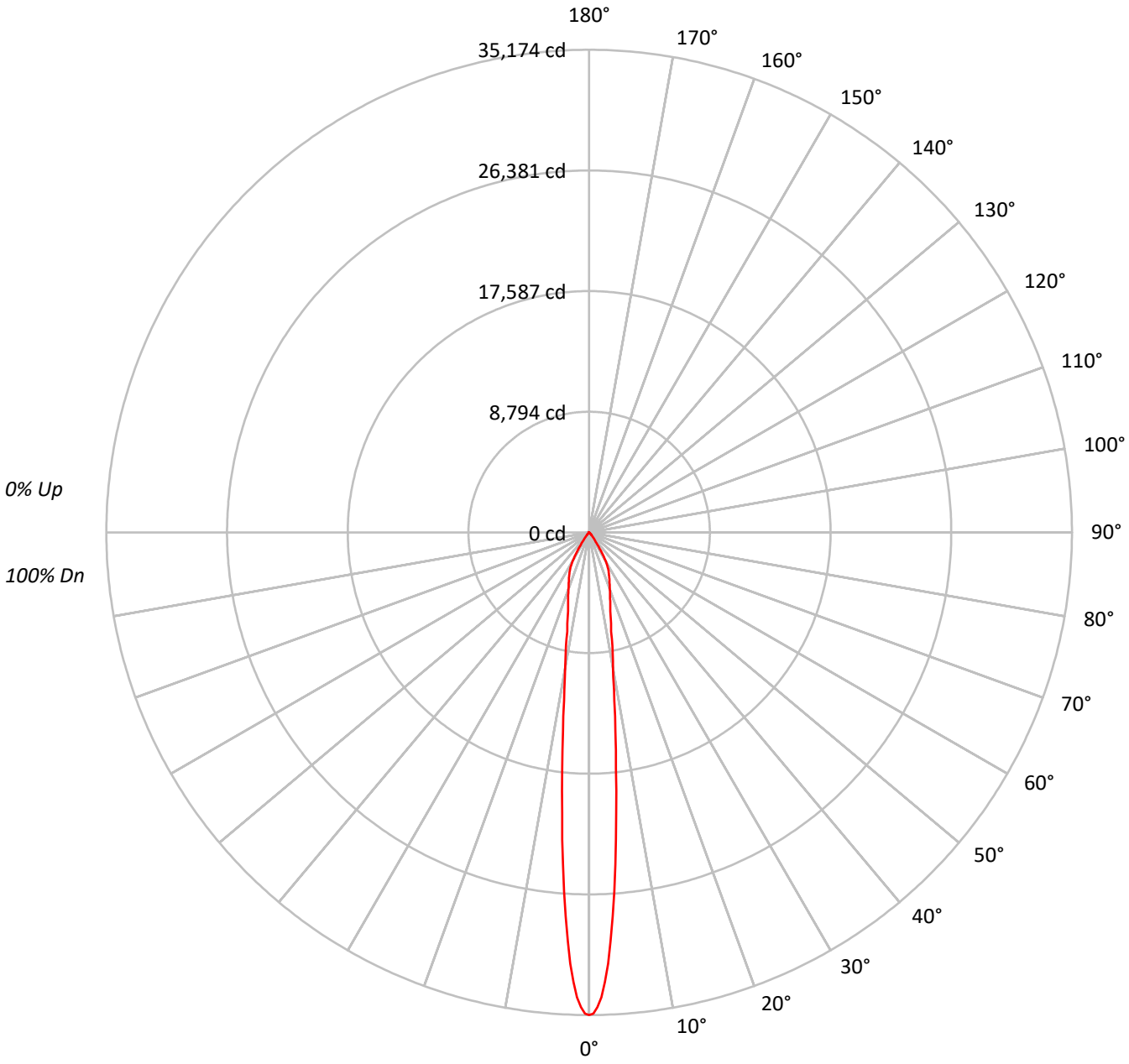
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	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	107	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°	1084630
5°	695706
10°	314276
15°	189626
20°	144502
25°	116692
30°	85510
35°	30966
40°	11557
45°	5246
50°	1679
55°	414
60°	241
65°	285
70°	0
75°	0
80°	693
85°	1380

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1714.2	29.7
10°-20°	1741.1	30.2
20°-30°	1558.6	27.0
30°-40°	627.8	10.9
40°-50°	103.0	1.8
50°-60°	9.4	0.2
60°-70°	3.4	0.1
70°-80°	2.6	0.0
80°-90°	3.7	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°	5013.8	87.0
0°-40°	5641.7	97.9
0°-60°	5754.0	99.8
0°-90°	5763.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5762.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	35174	
5°	22475	###
15°	5940	1741
25°	3430	1559
35°	823	628
45°	120	103
55°	8	9
65°	4	3
75°	0	3
85°	4	4
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	35173.8
0.5°	35065.2
1°	34611.3
1.5°	33881.9
2°	32776.1
2.5°	31468.7
3°	29831.4
3.5°	28035.1
4°	26258.1
4.5°	24267.8
5°	22475.4
5.5°	20523.9
6°	18940.9
6.5°	17292.1
7°	15996.2
7.5°	14626.7
8°	13524.8
8.5°	12419.1
9°	11588.8
9.5°	10673.2
10°	10036.9
12.5°	7402.6
15°	5939.9
17.5°	5074.8
20°	4403.5
22.5°	3868.1
25°	3429.7
27.5°	2991.3
30°	2401.5
32.5°	1544.2
35°	822.6
37.5°	454.0
40°	287.1
42.5°	190.1
45°	120.3
47.5°	73.7
50°	35.0
52.5°	11.7
55°	7.7
57.5°	3.9
60°	3.9
62.5°	3.9
65°	3.9

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CANDELA DISTRIBUTION (continued):

	0°
72.5°	*0.0*
75°	*0.0*
77.5°	*3.9*
80°	*3.9*
82.5°	*3.9*
85°	*3.9*
87.5°	*3.9*
90°	*0.0*

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Report Generated By 670245859 / DESKTOP-HRDQ47P

0°-180°

67.5°	*3.9*
70°	*0.0*

(END OF REPORT)