Classified
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: P582182

Luminaire Tested: **HCC6S30D010BZ-HM63040840-61MDH**

Issue Date: 9/16/2021

Test Information

Test Method:	LM-41-14
Report Number:	P582182
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-5)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/16/2021
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	HALO COMMERCIAL
Catalog Number:	HCC6S30D010BZ-HM63040840-61MDH
Description:	HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source:	(1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3393.3 lumens
Efficiency:	N/A
Efficacy:	121.2 lumens/watt
Spacing Criteria (0/90/45):	1.01 / 1.01 / 0.97
Luminous Opening:	Circular (Dia: 0.5' x H: 0')
CIE Type:	Direct

Input Watts (W):	28
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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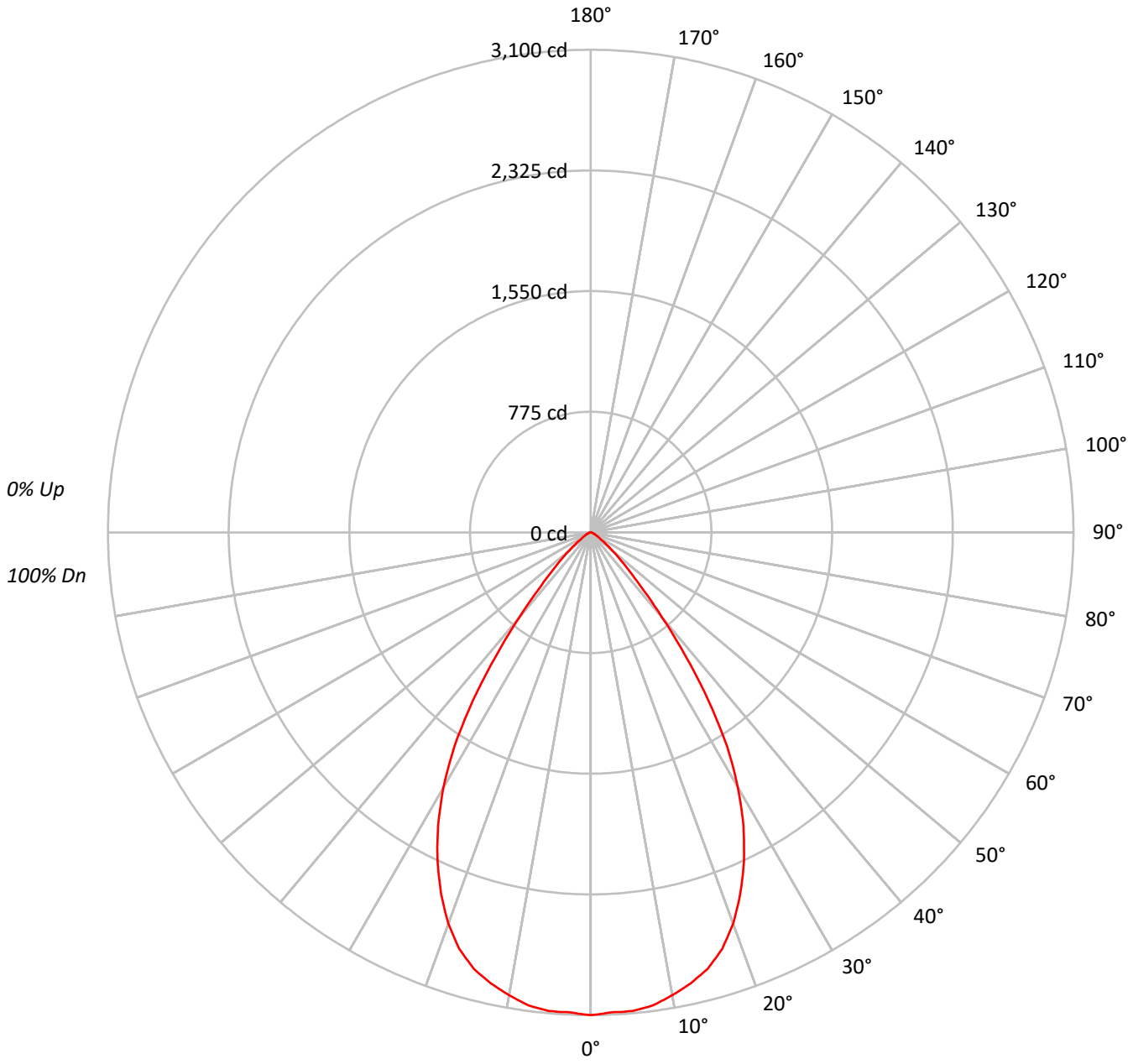
Luminous Intensity Polar Plot



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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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	94	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72
5	90	81	75	71	89	80	75	70	79	74	70	77	73	69	75	72	68	67
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62
7	81	71	65	60	79	70	64	60	69	64	60	68	63	59	67	62	59	57
8	77	67	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53
9	73	62	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	169953
5°	169810
10°	168044
15°	164660
20°	155979
25°	140857
30°	119658
35°	88338
40°	51096
45°	27119
50°	15326
55°	8009
60°	5252
65°	3736
70°	2693
75°	2033
80°	1515
85°	1510

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.4	8.6
10°-20°	811.5	23.9
20°-30°	1059.1	31.2
30°-40°	809.4	23.9
40°-50°	293.1	8.6
50°-60°	85.1	2.5
60°-70°	30.4	0.9
70°-80°	10.4	0.3
80°-90°	2.0	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°	2163.0	63.7
0°-40°	2972.4	87.6
0°-60°	3350.6	98.7
0°-90°	3393.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3393.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3100	
5°	3086	292
15°	2901	811
25°	2329	1059
35°	1320	809
45°	350	293
55°	84	85
65°	29	30
75°	10	10
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3100.2
2.5°	3085.8
5°	3085.8
7.5°	3064.2
10°	3018.8
12.5°	2966.0
15°	2901.3
17.5°	2805.4
20°	2673.7
22.5°	2510.8
25°	2328.7
27.5°	2122.7
30°	1890.3
32.5°	1629.2
35°	1320.0
37.5°	996.6
40°	714.0
42.5°	493.6
45°	349.8
47.5°	251.6
50°	179.7
52.5°	127.0
55°	83.8
57.5°	59.9
60°	47.9
62.5°	38.3
65°	28.8
67.5°	23.9
70°	16.8
72.5°	12.0
75°	9.6
77.5°	7.1
80°	4.8
82.5°	2.4
85°	2.4
87.5°	0.0
90°	0.0

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0°-180°

(END OF REPORT)