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: P582191

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

Issue Date: 9/16/2021

Test Information

Test Method:	LM-41-14
Report Number:	P582191
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-7)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	9/16/2021
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	HALO COMMERCIAL
Catalog Number:	HCC6S30D010BZ-HM63040840-61WDC
Description:	HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source:	(1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3862.7 lumens
Efficiency:	N/A
Efficacy:	138.0 lumens/watt
Spacing Criteria (0/90/45):	1.28 / 1.28 / 1.09
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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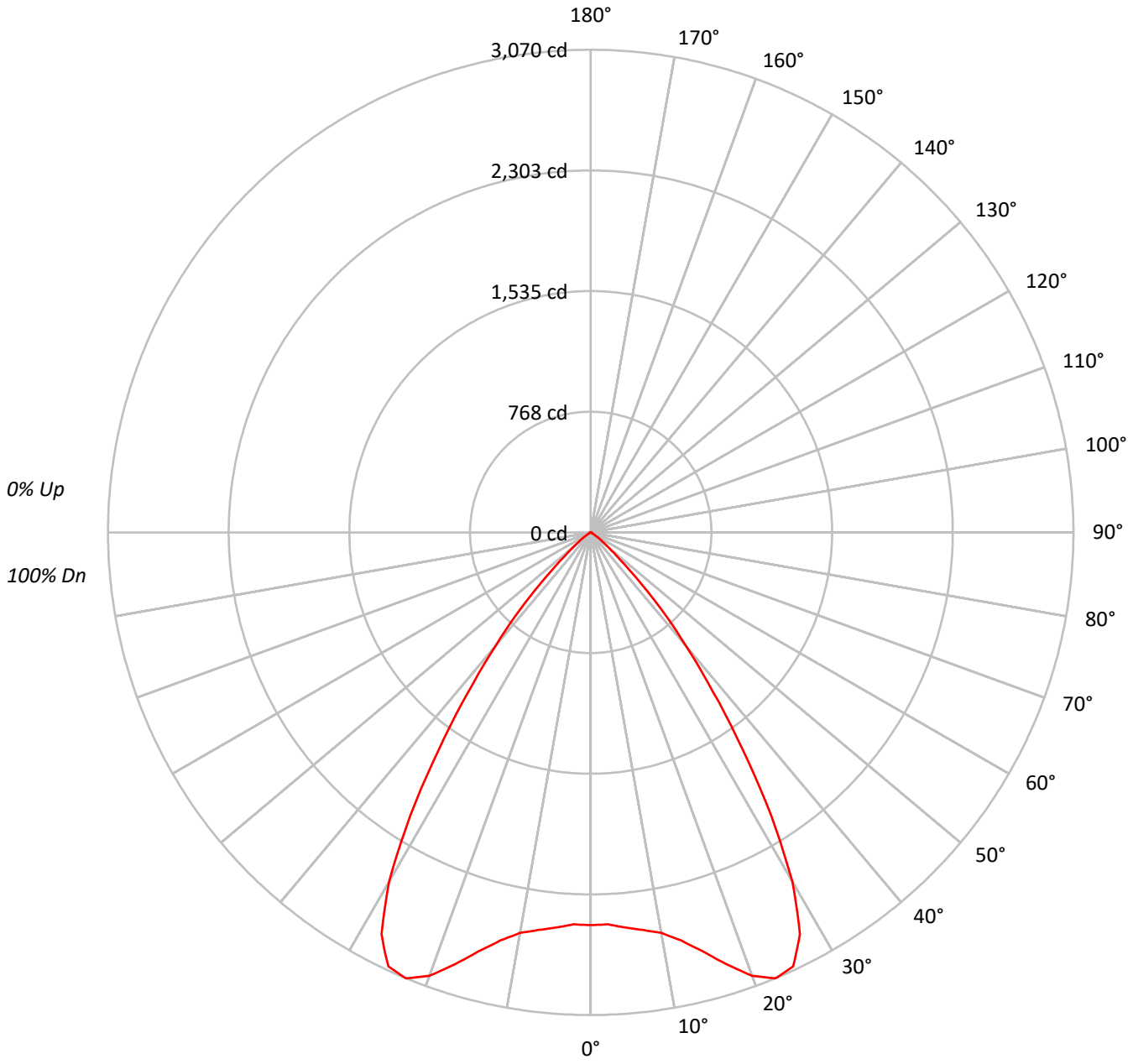
Luminous Intensity Polar Plot



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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	103	104	102	100	100	99	97	97	96	94	93
2	107	102	97	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	82	88	84	81	85	82	80	78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	74	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	66	61	58	56
8	76	65	59	54	74	65	59	54	64	58	54	62	57	54	61	57	53	52
9	71	61	55	50	70	60	54	50	60	54	50	59	53	50	58	53	50	48
10	68	57	51	47	67	57	51	47	56	50	46	55	50	46	54	50	46	45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	136941
5°	138785
10°	143991
15°	156590
20°	175068
25°	184275
30°	162221
35°	112511
40°	67183
45°	31941
50°	12051
55°	5037
60°	1579
65°	1245
70°	769
75°	508
80°	758
85°	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.7	6.3
10°-20°	792.3	20.5
20°-30°	1357.5	35.1
30°-40°	1054.3	27.3
40°-50°	348.6	9.0
50°-60°	53.5	1.4
60°-70°	9.4	0.2
70°-80°	3.5	0.1
80°-90°	1.0	0.0
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°	2392.5	61.9
0°-40°	3446.8	89.2
0°-60°	3848.8	99.6
0°-90°	3862.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3862.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2498	
5°	2522	243
15°	2759	792
25°	3046	1358
35°	1681	1054
45°	412	349
55°	53	53
65°	10	9
75°	2	3
85°	0	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2498.0
2.5°	2495.6
5°	2522.0
7.5°	2550.6
10°	2586.7
12.5°	2658.5
15°	2759.1
17.5°	2881.2
20°	3000.9
22.5°	3070.4
25°	3046.5
27.5°	2881.2
30°	2562.7
32.5°	2134.0
35°	1681.2
37.5°	1276.5
40°	938.8
42.5°	663.5
45°	412.0
47.5°	230.0
50°	141.3
52.5°	86.2
55°	52.7
57.5°	26.4
60°	14.4
62.5°	12.0
65°	9.6
67.5°	7.1
70°	4.8
72.5°	4.8
75°	2.4
77.5°	2.4
80°	2.4
82.5°	2.4
85°	0.0
87.5°	0.0
90°	0.0

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0°-180°

(END OF REPORT)