

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: P582350

Luminaire Tested: **HCC6S35D010MW-HM63040927-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582350  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S35D010MW-HM63040927-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

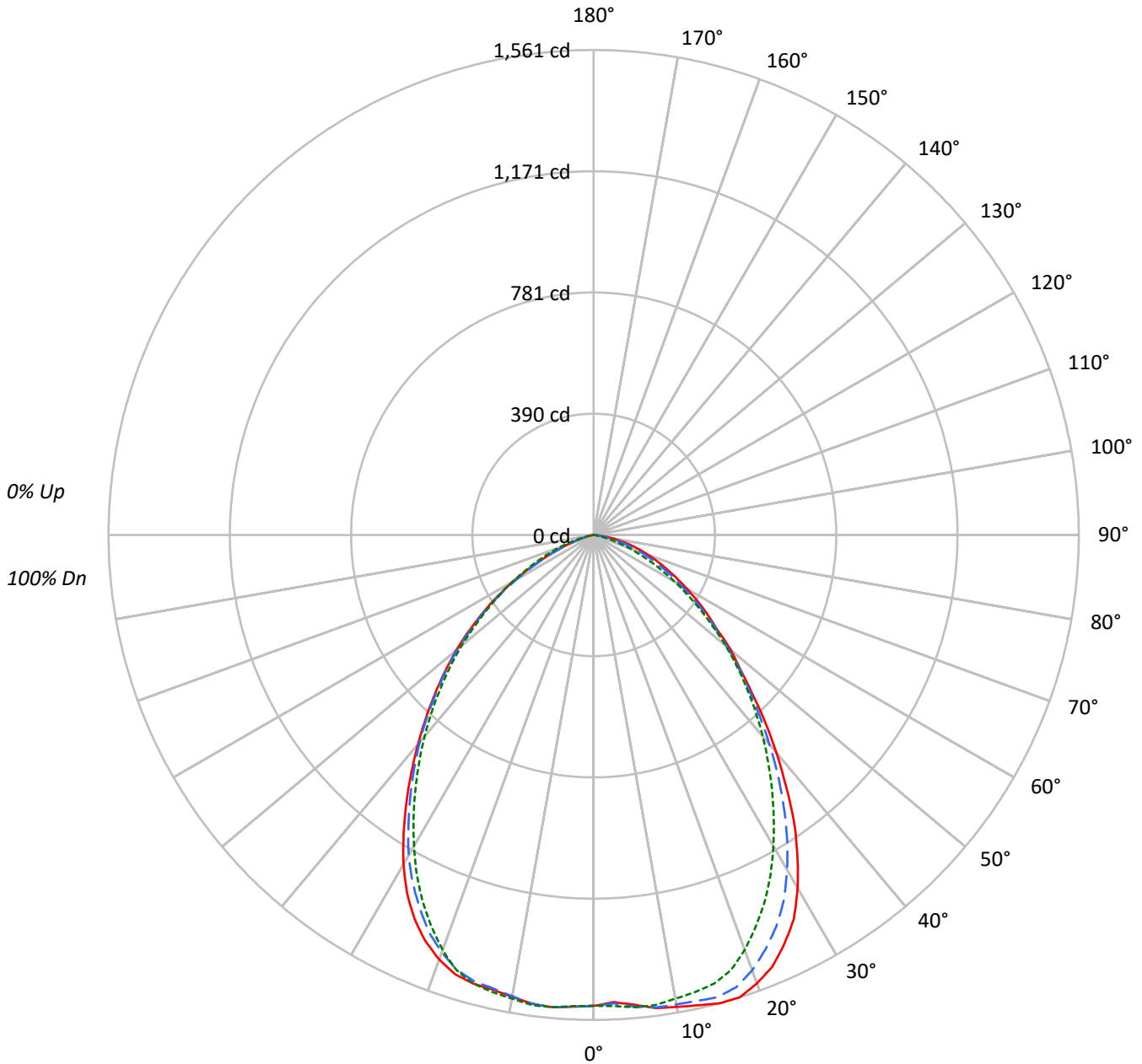
Lumens per Lamp: N/A  
Luminaire Lumens: 3060.1 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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								
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88								
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77								
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68								
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60								
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53								
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	83091	83091	83091
5°	83524	83975	83975
10°	85859	84373	84033
15°	88587	84859	84859
20°	89619	82916	84830
25°	87834	78761	82493
30°	83076	73195	77487
35°	75188	66936	70236
40°	65408	60556	62911
45°	55890	53975	55890
50°	49047	47299	49218
55°	42799	39855	41413
60°	37837	33100	32651
65°	33570	26112	22376
70°	29636	18449	13512
75°	25248	10421	6524
80°	18784	3252	1957
85°	10378	1321	1321



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.4	4.8
10°-20°	425.4	13.9
20°-30°	621.3	20.3
30°-40°	651.6	21.3
40°-50°	548.9	17.9
50°-60°	384.6	12.6
60°-70°	206.2	6.7
70°-80°	69.2	2.3
80°-90°	7.6	0.2
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°	1192.1	39.0
0°-40°	1843.7	60.2
0°-60°	2777.2	90.8
0°-90°	3060.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3060.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1516	1516	1516	1516	1516	
5°	1518	1524	1526	1526	1526	146
15°	1561	1540	1495	1487	1495	440
25°	1452	1390	1302	1325	1364	665
35°	1124	1066	1000	1029	1050	697
45°	721	709	696	715	721	562
55°	448	433	417	425	433	403
65°	259	236	201	166	172	258
75°	119	92	49	31	31	126
85°	16	8	2	2	2	23
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7
2.5°	1505.4	1505.4	1509.6	1513.7	1517.8	1517.8	1519.9	1521.9	1519.9
5°	1517.8	1517.8	1524.0	1526.0	1526.0	1524.0	1526.0	1526.0	1526.0
7.5°	1536.2	1532.2	1534.3	1530.2	1526.0	1524.0	1521.9	1521.9	1521.9
10°	1542.4	1538.3	1534.3	1526.0	1515.7	1509.6	1507.5	1509.6	1509.6
12.5°	1550.6	1546.5	1536.2	1519.9	1507.5	1497.3	1495.2	1499.4	1499.4
15°	1560.9	1556.8	1540.4	1513.7	1495.2	1484.9	1487.0	1491.1	1495.2
17.5°	1560.9	1552.7	1526.0	1491.1	1468.6	1458.3	1466.5	1476.7	1482.9
20°	1536.2	1528.1	1491.1	1448.0	1421.3	1415.1	1429.5	1448.0	1454.1
22.5°	1503.4	1487.0	1443.8	1392.5	1363.8	1363.8	1384.3	1406.9	1415.1
25°	1452.1	1439.7	1390.5	1330.8	1302.1	1300.0	1324.8	1355.6	1363.8
27.5°	1394.6	1378.1	1324.8	1263.2	1232.4	1234.3	1261.1	1291.9	1300.0
30°	1312.4	1291.9	1244.6	1185.1	1156.3	1164.5	1191.3	1213.8	1224.1
32.5°	1220.0	1201.5	1158.4	1102.9	1078.3	1086.5	1109.1	1129.7	1137.8
35°	1123.5	1102.9	1065.9	1016.7	1000.2	1008.4	1028.9	1045.4	1049.5
37.5°	1014.6	1000.2	973.5	934.5	922.2	932.4	948.9	959.2	963.2
40°	914.0	901.6	879.1	850.3	846.2	854.4	870.8	877.0	879.1
42.5°	815.4	805.1	790.8	770.2	770.2	778.4	792.7	796.9	798.9
45°	720.9	714.8	708.6	692.1	696.2	706.5	714.8	720.9	720.9
47.5°	638.7	640.8	632.6	620.3	624.3	634.6	640.8	647.0	647.0
50°	575.1	568.9	560.7	548.4	554.6	562.7	571.0	575.1	577.1
52.5°	501.1	499.1	492.9	478.6	482.7	486.8	494.9	501.1	503.2
55°	447.8	441.6	433.3	417.0	417.0	421.1	425.1	429.2	433.3
57.5°	396.4	390.2	377.9	359.4	357.3	357.3	355.4	359.4	365.6
60°	345.1	343.0	324.5	308.1	301.9	295.7	287.5	289.6	297.8
62.5°	299.9	295.7	279.4	258.8	246.5	236.2	225.9	223.8	232.1
65°	258.8	254.6	236.2	215.7	201.3	182.8	166.4	166.4	172.5
67.5°	221.8	213.6	197.2	174.6	156.1	133.5	117.1	121.1	123.2
70°	184.9	178.7	160.2	137.6	115.1	92.4	82.2	84.3	84.3
72.5°	151.9	143.8	125.3	102.7	80.1	59.5	55.4	53.4	53.4
75°	119.2	110.9	92.4	69.8	49.2	34.9	30.8	30.8	30.8
77.5°	86.2	80.1	63.7	43.2	26.7	16.5	14.4	12.4	12.4
80°	59.5	53.4	39.0	22.6	10.3	6.2	6.2	6.2	6.2
82.5°	34.9	28.7	18.4	10.3	4.1	2.1	2.1	2.1	2.1
85°	16.5	12.4	8.2	4.1	2.1	2.1	2.1	2.1	2.1
87.5°	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



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— 0°-180°    - - 45°-225°    - - - - 90°-270°

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