

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: P582323

Luminaire Tested: **HCC6S35D010SL-HM63040835-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S35D010SL-HM63040835-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

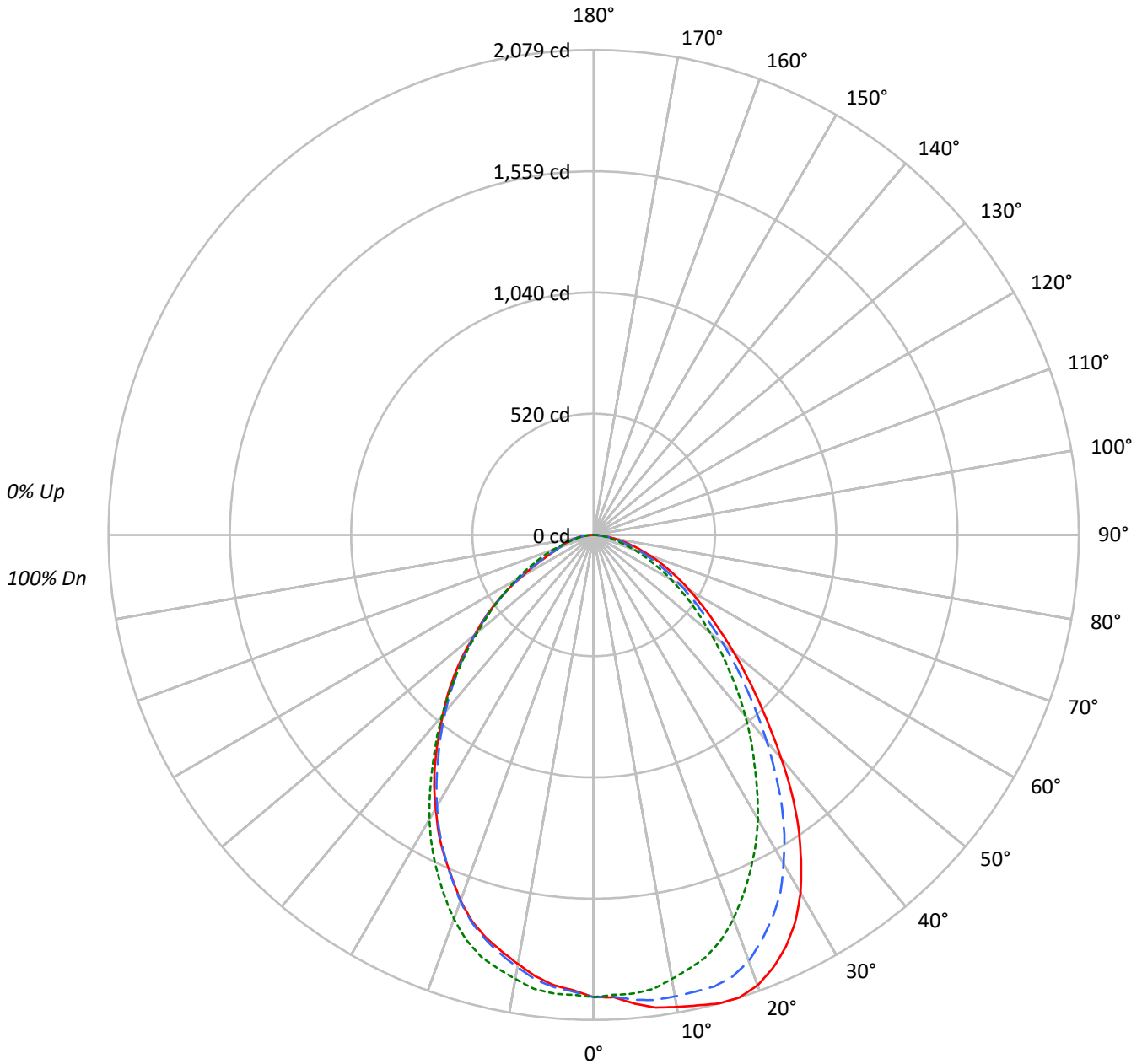
Lumens per Lamp: N/A
Luminaire Lumens: 3880.4 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 33.7
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				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
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87			87
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76			76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66			66
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58			58
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52			52
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46			46
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42			42
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38			38
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34			34
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31			31

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	108621	108621	108621
5°	110978	108595	106658
10°	114366	107591	103973
15°	117986	106158	101397
20°	119856	102174	97273
25°	117890	96114	91693
30°	112232	89102	85678
35°	102359	80435	79163
40°	89496	72257	71870
45°	77023	63588	65061
50°	66949	55410	56561
55°	58464	48639	49155
60°	51937	42146	38582
65°	46347	35464	29484
70°	40776	29075	24732
75°	34970	22939	23511
80°	28192	19636	23077
85°	18744	17046	20379



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.6	4.8
10°-20°	534.1	13.8
20°-30°	762.4	19.6
30°-40°	798.6	20.6
40°-50°	672.4	17.3
50°-60°	478.6	12.3
60°-70°	280.1	7.2
70°-80°	132.6	3.4
80°-90°	34.1	0.9
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°	1484.1	38.2
0°-40°	2282.7	58.8
0°-60°	3433.7	88.5
0°-90°	3880.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3880.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1981	1981	1981	1981	1981	
5°	2017	2000	1973	1946	1938	194
15°	2079	2003	1870	1795	1787	587
25°	1949	1811	1589	1513	1516	892
35°	1530	1402	1202	1161	1183	950
45°	994	920	820	823	839	771
55°	612	560	509	509	514	551
65°	357	317	273	230	227	356
75°	165	138	108	106	111	177
85°	30	24	27	32	32	39
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°	1981.4	1981.4	1981.4	1981.4	1981.4	1981.4	1981.4	1981.4	1981.4
2.5°	1984.1	1984.1	1981.4	1978.8	1973.4	1965.2	1959.9	1954.4	1954.4
5°	2016.7	2011.2	2000.5	1986.9	1973.4	1957.1	1946.3	1938.2	1938.2
7.5°	2043.8	2032.9	2011.2	1986.9	1962.5	1940.8	1921.9	1911.1	1908.4
10°	2054.5	2041.0	2008.5	1970.6	1932.8	1902.9	1881.3	1867.8	1867.8
12.5°	2065.4	2049.1	2005.8	1951.7	1902.9	1862.4	1840.7	1829.9	1827.2
15°	2078.9	2057.3	2003.2	1935.5	1870.5	1824.5	1794.7	1786.6	1786.6
17.5°	2078.9	2051.8	1984.1	1900.2	1819.0	1767.7	1740.6	1732.4	1735.1
20°	2054.5	2024.7	1943.5	1840.7	1751.4	1697.3	1670.2	1664.7	1667.4
22.5°	2008.5	1973.4	1881.3	1770.3	1672.9	1616.1	1591.7	1591.7	1589.0
25°	1949.0	1911.1	1811.0	1694.5	1589.0	1532.2	1513.1	1515.9	1515.9
27.5°	1870.5	1832.5	1732.4	1607.9	1502.4	1445.4	1431.9	1437.4	1440.1
30°	1773.0	1732.4	1626.9	1505.1	1407.6	1350.8	1342.6	1350.8	1353.5
32.5°	1654.0	1624.1	1521.3	1396.8	1304.7	1256.0	1253.4	1261.4	1272.3
35°	1529.5	1496.9	1402.2	1288.5	1201.9	1161.3	1161.3	1174.8	1182.9
37.5°	1394.1	1361.5	1274.9	1180.2	1107.1	1069.2	1074.7	1088.2	1090.9
40°	1250.6	1226.3	1153.1	1071.9	1009.7	979.9	988.0	1001.5	1004.3
42.5°	1115.3	1093.6	1034.1	960.9	914.9	893.3	904.1	920.4	925.8
45°	993.5	969.1	920.4	858.1	820.2	809.3	822.9	833.7	839.2
47.5°	882.5	860.8	820.2	763.3	736.3	730.9	744.4	749.8	755.3
50°	785.0	763.3	722.7	671.4	649.7	649.7	660.5	665.9	663.2
52.5°	690.3	671.4	633.4	590.2	576.6	576.6	584.7	587.4	592.8
55°	611.7	592.8	560.3	519.8	508.9	503.4	508.9	508.9	514.3
57.5°	538.7	522.5	492.7	454.8	441.2	435.8	433.1	430.4	435.8
60°	473.7	460.1	427.7	395.3	384.4	370.9	360.0	349.2	351.9
62.5°	414.2	400.6	370.9	338.3	327.6	308.6	295.0	281.5	287.0
65°	357.3	343.8	316.7	289.6	273.4	251.7	230.1	222.0	227.3
67.5°	305.9	295.0	267.9	240.9	227.3	203.1	181.4	181.4	184.0
70°	254.4	243.7	222.0	197.6	181.4	159.8	151.6	154.3	154.3
72.5°	208.4	200.3	178.7	157.0	140.7	127.2	127.2	129.9	132.7
75°	165.1	159.8	138.1	119.2	108.3	100.1	105.6	108.3	111.0
77.5°	127.2	119.2	102.8	89.3	81.2	83.9	89.3	92.1	94.8
80°	89.3	86.6	73.1	65.0	62.2	65.0	70.4	73.1	73.1
82.5°	56.8	54.1	46.0	43.3	43.3	46.0	51.5	51.5	51.5
85°	29.8	27.1	24.4	24.4	27.1	29.8	32.4	32.4	32.4
87.5°	10.9	8.2	10.9	10.9	13.5	13.5	13.5	13.5	13.5
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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