

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P303550

Luminaire Tested: **PR6FS24D010 PR6M24WW9FSBZ 3000Lm4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P303550  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-195-9)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PR6FS24D010 PR6M24WW9FSBZ 3000lm4000K  
Description: PR6 WALLWASH ASSEMBLY WITH, BRONZE FINISH  
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1961.7 lumens  
Efficiency: N/A  
Efficacy: 68.8 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 1.13 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

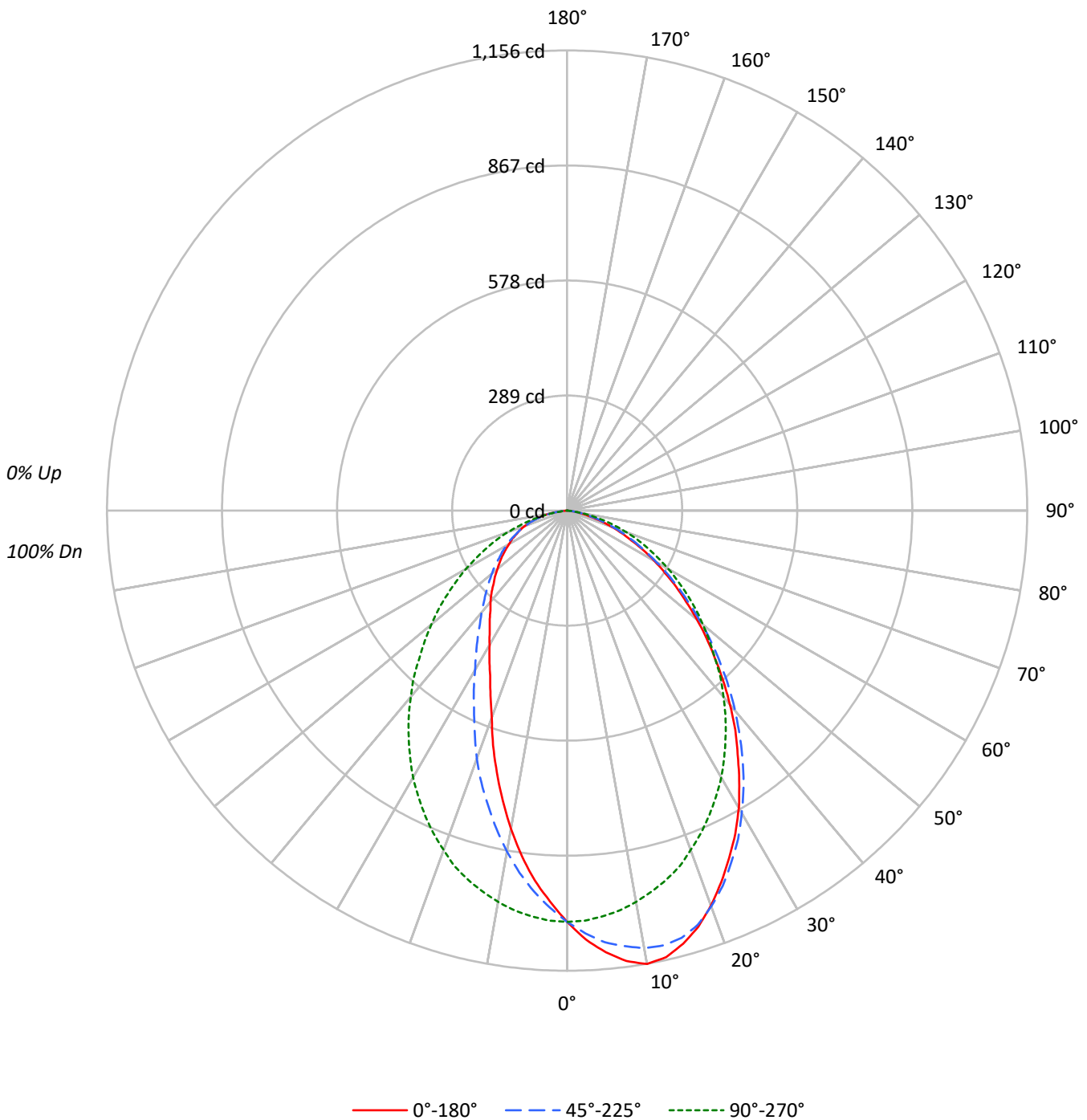
Input Watts (W): 28.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P303550

CATALOG NUMBER: PR6FS24D010 PR6M24WW9FSBZ 3000lm4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P303550

CATALOG NUMBER: PR6FS24D010 PR6M24WW9FSBZ 3000Lm4000K

**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	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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87					87			
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75					75			
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65					65			
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57					57			
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50					50			
6	74	62	54	48	73	61	53	48	59	52	47	58	52	47	56	51	47	45					45			
7	69	57	49	43	68	56	48	43	54	48	42	53	47	42	52	46	42	40					40			
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36					36			
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33					33			
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30					30			

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

	0°	90°	180°
0°	67413	67413	67413
5°	72943	67016	61089
10°	76615	66121	53799
15°	76079	64867	46023
20°	73316	63013	38400
25°	69314	60813	32940
30°	64968	58338	29357
35°	59470	55265	27031
40°	54174	52036	25482
45°	48485	48485	24127
50°	43126	45166	23222
55°	38036	41755	22589
60°	33129	38388	21986
65°	27555	34549	21736
70°	22547	30215	21574
75°	15855	24073	20292
80°	10407	15103	17019
85°	1871	1871	3743



TEST NUMBER: P303550

CATALOG NUMBER: PR6FS24D010 PR6M24WW9FSBZ 3000lm4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.7	4.9
10°-20°	262.3	13.4
20°-30°	356.0	18.1
30°-40°	376.1	19.2
40°-50°	337.7	17.2
50°-60°	263.6	13.4
60°-70°	175.4	8.9
70°-80°	83.5	4.3
80°-90°	10.5	0.5
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°	715.0	36.4
0°-40°	1091.0	55.6
0°-60°	1692.3	86.3
0°-90°	1961.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1961.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1033	1033	1033	1033	1033	
5°	1114	1089	1023	960	933	108
15°	1126	1111	960	767	681	316
25°	963	976	845	553	458	443
35°	747	769	694	392	339	468
45°	526	546	526	287	262	407
55°	334	344	367	209	199	300
65°	178	189	224	143	141	180
75°	63	73	96	78	80	71
85°	2	2	2	2	5	8
90°	0	0	0	0	0	



TEST NUMBER: P303550

CATALOG NUMBER: PR6FS24D010 PR6M24WW9FSBZ 3000Lm4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3
2.5°	1078.6	1073.6	1063.5	1048.4	1030.8	1013.2	998.1	990.6	983.1
5°	1113.8	1106.3	1088.7	1058.5	1023.3	990.6	960.4	940.3	932.8
7.5°	1141.5	1131.4	1103.7	1063.5	1013.2	960.4	917.7	885.0	874.9
10°	1156.5	1146.5	1116.3	1063.5	998.1	930.3	869.9	827.2	812.1
12.5°	1149.0	1144.0	1118.8	1061.0	980.5	895.1	819.6	769.4	746.7
15°	1126.4	1126.4	1111.3	1050.9	960.4	862.4	766.8	704.0	681.4
17.5°	1096.2	1098.7	1091.2	1038.4	937.8	819.6	716.6	643.6	618.5
20°	1056.0	1058.5	1058.5	1018.3	907.6	779.4	663.8	578.3	553.1
22.5°	1010.7	1015.7	1020.8	993.1	877.5	739.2	605.9	525.5	502.8
25°	962.9	968.0	975.5	962.9	844.8	696.4	553.1	477.7	457.6
27.5°	915.2	917.7	930.3	927.7	809.6	653.7	507.9	440.0	422.4
30°	862.4	867.4	877.5	887.5	774.4	608.4	462.6	407.3	389.7
32.5°	804.5	809.6	824.7	837.2	734.2	565.7	424.9	374.6	362.0
35°	746.7	751.8	769.4	787.0	693.9	523.0	392.2	349.5	339.4
37.5°	693.9	699.0	711.5	736.7	653.7	480.2	359.5	326.8	316.8
40°	636.1	641.1	656.2	686.4	611.0	440.0	334.4	304.2	299.2
42.5°	580.8	585.8	600.9	633.6	570.7	402.3	309.2	286.6	281.6
45°	525.5	528.0	545.6	578.3	525.5	364.6	286.6	266.5	261.5
47.5°	475.2	477.7	492.8	530.5	485.2	331.9	266.5	248.9	246.4
50°	424.9	422.4	440.0	477.7	445.0	301.7	246.4	233.8	228.8
52.5°	377.1	377.1	389.7	429.9	407.3	274.0	228.8	216.2	213.7
55°	334.4	334.4	344.4	384.7	367.1	246.4	208.7	201.1	198.6
57.5°	291.6	291.6	301.7	336.9	329.4	221.3	193.6	183.5	183.5
60°	253.9	251.4	259.0	296.7	294.2	198.6	176.0	171.0	168.5
62.5°	216.2	213.7	221.3	253.9	256.5	176.0	160.9	155.9	155.9
65°	178.5	181.0	188.6	216.2	223.8	155.9	143.3	143.3	140.8
67.5°	148.3	150.9	155.9	181.0	191.1	135.8	128.2	128.2	128.2
70°	118.2	120.7	125.7	145.8	158.4	115.7	110.6	113.1	113.1
72.5°	90.5	93.0	98.1	113.1	125.7	95.5	95.5	98.1	98.1
75°	62.9	65.4	72.9	85.5	95.5	75.4	77.9	80.5	80.5
77.5°	42.7	42.7	47.8	57.8	67.9	55.3	60.3	62.9	65.4
80°	27.7	27.7	30.2	35.2	40.2	37.7	40.2	45.3	45.3
82.5°	12.6	12.6	15.1	15.1	17.6	17.6	20.1	20.1	22.6
85°	2.5	5.0	2.5	2.5	2.5	2.5	2.5	5.0	5.0
87.5°	0.0	0.0	0.0	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

(END OF REPORT)