

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: P303543

Luminaire Tested: **PR6FS24D010 PR6M24WW9FSBZ 2000Lm3500K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P303543  
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 2000lm3500K  
Description: PR6 WALLWASH ASSEMBLY WITH, BRONZE FINISH  
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1694.8 lumens  
Efficiency: N/A  
Efficacy: 83.1 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

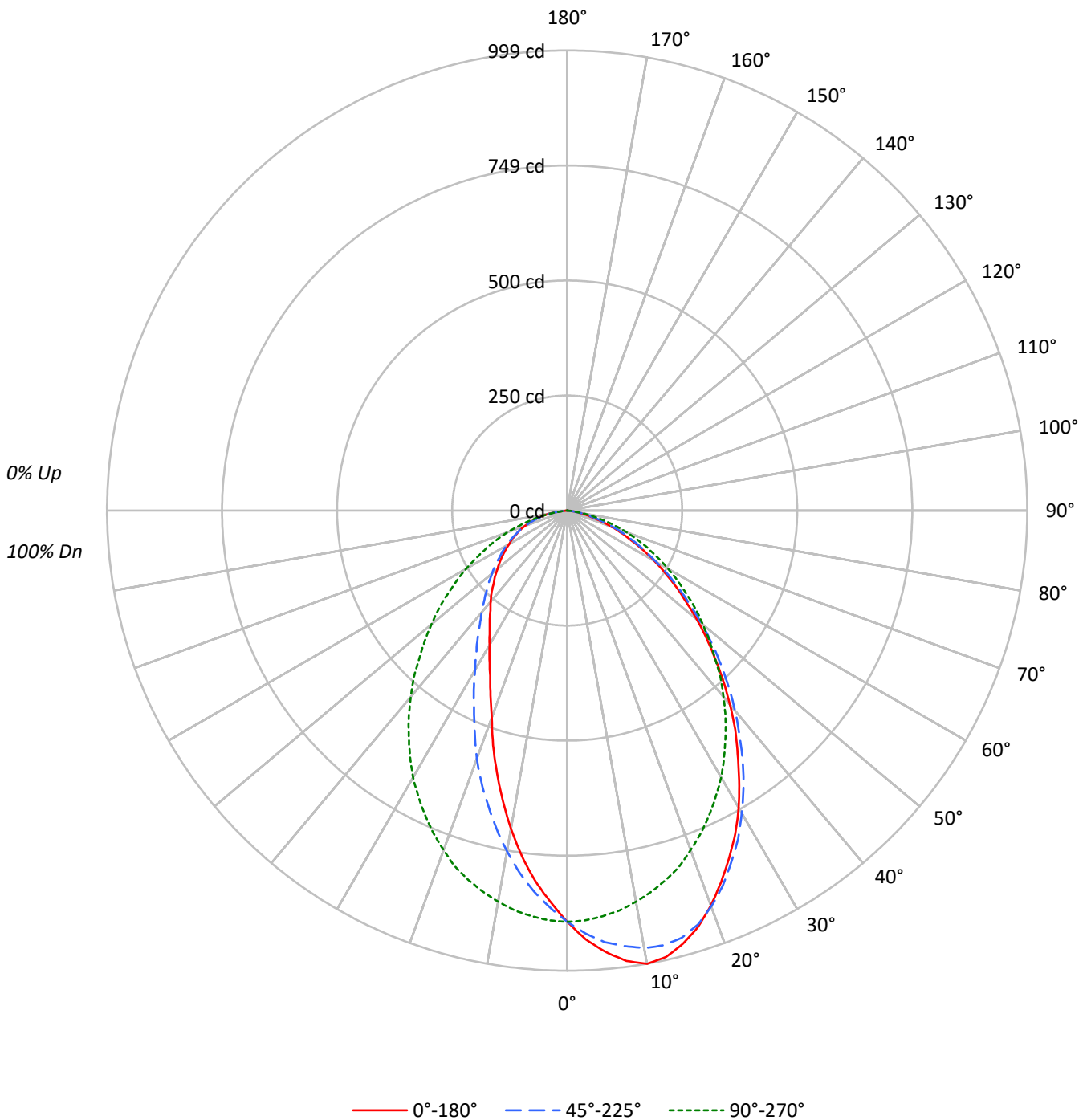
Input Watts (W): 20.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P303543

CATALOG NUMBER: PR6FS24D010 PR6M24WW9FSBZ 2000lm3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P303543

CATALOG NUMBER: PR6FS24D010 PR6M24WW9FSBZ 2000lm3500K

**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°	58240	58240	58240
5°	63014	57893	52772
10°	66194	57125	46479
15°	65725	56040	39755
20°	63339	54438	33179
25°	59884	52535	28456
30°	56123	50398	25365
35°	51378	47747	23352
40°	46798	44950	22015
45°	41888	41888	20842
50°	37259	39025	20066
55°	32861	36068	19518
60°	28628	33155	18985
65°	23804	29840	18772
70°	19476	26095	18636
75°	13687	20796	17519
80°	8979	13075	14690
85°	1647	1647	3219



TEST NUMBER: P303543

CATALOG NUMBER: PR6FS24D010 PR6M24WW9FSBZ 2000lm3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.5	4.9
10°-20°	226.6	13.4
20°-30°	307.5	18.1
30°-40°	324.9	19.2
40°-50°	291.7	17.2
50°-60°	227.8	13.4
60°-70°	151.6	8.9
70°-80°	72.1	4.3
80°-90°	9.1	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°	617.7	36.4
0°-40°	942.6	55.6
0°-60°	1462.1	86.3
0°-90°	1694.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1694.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	893	893	893	893	893	
5°	962	940	884	830	806	93
15°	973	960	830	662	589	273
25°	832	843	730	478	395	382
35°	645	665	600	339	293	404
45°	454	471	454	248	226	351
55°	289	298	317	180	172	259
65°	154	163	193	124	122	156
75°	54	63	82	67	70	61
85°	2	2	2	2	4	7
90°	0	0	0	0	0	



TEST NUMBER: P303543

CATALOG NUMBER: PR6FS24D010 PR6M24WW9FSBZ 2000lm3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7
2.5°	931.8	927.5	918.8	905.8	890.6	875.4	862.3	855.8	849.3
5°	962.2	955.7	940.5	914.5	884.0	855.8	829.7	812.4	805.8
7.5°	986.1	977.4	953.6	918.8	875.4	829.7	792.8	764.6	755.9
10°	999.2	990.5	964.4	918.8	862.3	803.7	751.5	714.6	701.6
12.5°	992.6	988.3	966.6	916.6	847.1	773.3	708.1	664.7	645.1
15°	973.1	973.1	960.1	907.9	829.7	745.0	662.5	608.2	588.6
17.5°	947.0	949.2	942.7	897.1	810.2	708.1	619.0	556.1	534.3
20°	912.3	914.5	914.5	879.7	784.1	673.4	573.4	499.6	477.9
22.5°	873.2	877.5	881.9	858.0	758.1	638.6	523.5	454.0	434.4
25°	831.9	836.3	842.8	831.9	729.8	601.7	477.9	412.7	395.3
27.5°	790.6	792.8	803.7	801.5	699.4	564.7	438.8	380.1	364.9
30°	745.0	749.4	758.1	766.8	669.0	525.6	399.7	351.9	336.7
32.5°	695.1	699.4	712.4	723.3	634.3	488.7	367.1	323.6	312.8
35°	645.1	649.5	664.7	679.9	599.5	451.8	338.8	301.9	293.2
37.5°	599.5	603.8	614.7	636.4	564.7	414.9	310.6	282.4	273.7
40°	549.5	553.9	566.9	593.0	527.8	380.1	288.9	262.8	258.5
42.5°	501.8	506.1	519.1	547.4	493.1	347.5	267.2	247.6	243.3
45°	454.0	456.1	471.3	499.6	454.0	315.0	247.6	230.2	225.9
47.5°	410.5	412.7	425.7	458.3	419.2	286.7	230.2	215.0	212.9
50°	367.1	364.9	380.1	412.7	384.5	260.7	212.9	202.0	197.7
52.5°	325.8	325.8	336.7	371.4	351.9	236.8	197.7	186.8	184.6
55°	288.9	288.9	297.6	332.3	317.1	212.9	180.3	173.8	171.6
57.5°	252.0	252.0	260.7	291.1	284.5	191.1	167.3	158.6	158.6
60°	219.4	217.2	223.7	256.3	254.1	171.6	152.0	147.7	145.5
62.5°	186.8	184.6	191.1	219.4	221.6	152.0	139.0	134.7	134.7
65°	154.2	156.4	162.9	186.8	193.3	134.7	123.8	123.8	121.6
67.5°	128.2	130.3	134.7	156.4	165.1	117.3	110.8	110.8	110.8
70°	102.1	104.3	108.6	126.0	136.8	99.9	95.6	97.7	97.7
72.5°	78.2	80.4	84.7	97.7	108.6	82.5	82.5	84.7	84.7
75°	54.3	56.5	63.0	73.9	82.5	65.2	67.3	69.5	69.5
77.5°	36.9	36.9	41.3	50.0	58.6	47.8	52.1	54.3	56.5
80°	23.9	23.9	26.1	30.4	34.8	32.6	34.8	39.1	39.1
82.5°	10.9	10.9	13.0	13.0	15.2	15.2	17.4	17.4	19.5
85°	2.2	4.3	2.2	2.2	2.2	2.2	2.2	4.3	4.3
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)