

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: P238236

Luminaire Tested: **PRS630D010-S6M24-61SMDH-3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238236  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-20)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS630D010-S6M24-61SMDH-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2603.5 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.95  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

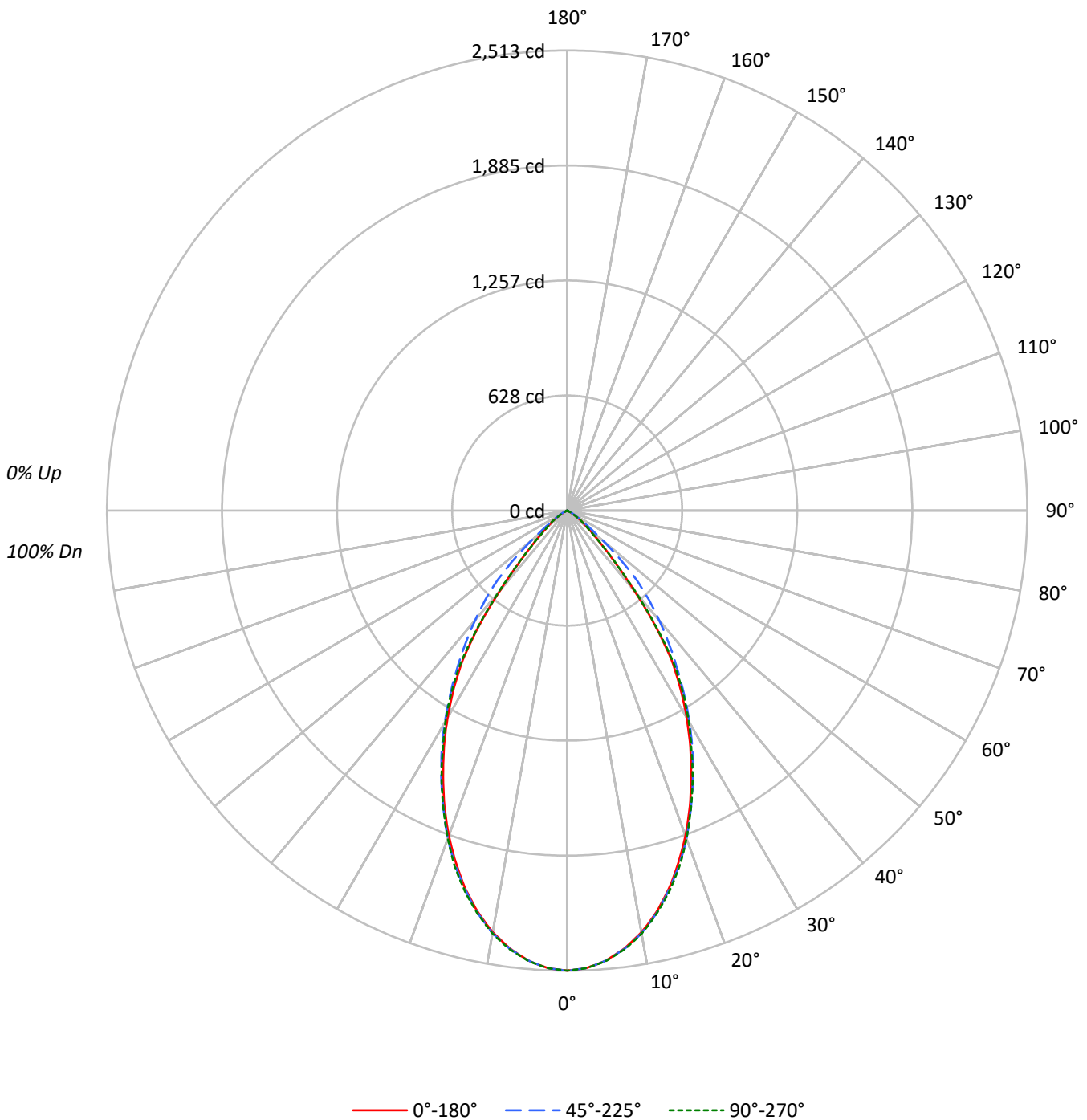
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P238236

CATALOG NUMBER: PRS630D010-S6M24-61SMDH-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P238236

CATALOG NUMBER: PRS630D010-S6M24-61SMDH-3000K

**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	100	97	96	94	93		
1	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	93	91	89	87	85		
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	82	80	78	78		
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78	78	78	75	73	72	72		
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72	72	72	69	68	68	66		
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	66	63	63	61	61		
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61	61	61	58	58	57	57		
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57	57	57	54	54	52	52		
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52	52	52	50	50	49	49		
9	72	62	55	51	71	61	55	51	60	55	51	59	54	50	58	54	50	49	49	49	47	47	46	46		
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46	46	46	44	44	44	44		

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

	0°	45°	90°
0°	108186	108186	108186
5°	106551	106551	106659
10°	102226	102444	102554
15°	95447	95666	96000
20°	86575	87372	87372
25°	76144	77213	77094
30°	64940	66426	66053
35°	52146	54769	53192
40°	31801	43851	32784
45°	16848	32631	17000
50°	9686	16866	9686
55°	5990	7296	5990
60°	2144	3436	2144
65°	509	1273	509
70°	315	315	315
75°	416	416	416
80°	0	0	0
85°	0	0	0



TEST NUMBER: P238236

CATALOG NUMBER: PRS630D010-S6M24-61SMDH-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.5	8.9
10°-20°	599.6	23.0
20°-30°	740.1	28.4
30°-40°	632.0	24.3
40°-50°	302.5	11.6
50°-60°	85.1	3.3
60°-70°	11.1	0.4
70°-80°	1.6	0.1
80°-90°	0.0	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°	1571.2	60.3
0°-40°	2203.2	84.6
0°-60°	2590.7	99.5
0°-90°	2603.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2603.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2513	2513	2513	2513	2513	
5°	2465	2468	2465	2468	2468	231
15°	2141	2144	2146	2154	2154	597
25°	1603	1610	1625	1625	1623	733
35°	992	1030	1042	1042	1012	598
45°	277	344	536	346	279	232
55°	80	92	97	90	80	72
65°	5	5	12	5	5	8
75°	2	2	2	2	2	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P238236

CATALOG NUMBER: PRS630D010-S6M24-61SMDH-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2512.7	2512.7	2512.7	2512.7	2512.7
2.5°	2500.2	2500.2	2500.2	2500.2	2500.2
5°	2465.3	2467.8	2465.3	2467.8	2467.8
7.5°	2410.5	2413.0	2413.0	2415.5	2415.5
10°	2338.2	2340.7	2343.2	2343.2	2345.7
12.5°	2248.4	2248.4	2253.4	2255.9	2255.9
15°	2141.3	2143.7	2146.2	2153.7	2153.7
17.5°	2019.1	2024.1	2031.6	2034.1	2039.0
20°	1889.5	1889.5	1906.9	1904.4	1906.9
22.5°	1749.9	1757.4	1764.8	1769.8	1764.8
25°	1602.8	1610.3	1625.3	1625.3	1622.8
27.5°	1455.8	1463.2	1483.2	1475.7	1470.7
30°	1306.2	1313.7	1336.1	1323.6	1328.6
32.5°	1151.6	1174.1	1186.5	1186.5	1174.1
35°	992.1	1029.5	1042.0	1042.0	1012.0
37.5°	785.2	874.9	909.8	882.4	795.2
40°	565.8	683.0	780.2	695.5	583.3
42.5°	396.3	496.1	660.6	503.5	401.3
45°	276.7	344.0	535.9	346.5	279.2
47.5°	194.4	239.3	388.9	239.3	194.4
50°	144.6	169.5	251.8	167.0	144.6
52.5°	109.7	124.6	154.5	122.1	109.7
55°	79.8	92.2	97.2	89.7	79.8
57.5°	49.9	62.3	62.3	62.3	47.4
60°	24.9	34.9	39.9	34.9	24.9
62.5°	7.5	15.0	24.9	15.0	7.5
65°	5.0	5.0	12.5	5.0	5.0
67.5°	5.0	5.0	5.0	5.0	5.0
70°	2.5	2.5	2.5	2.5	2.5
72.5°	2.5	2.5	2.5	2.5	2.5
75°	2.5	2.5	2.5	2.5	2.5
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)