

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: P238246

Luminaire Tested: **PRS630D010-S6M24-61SMDH-4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238246  
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-4000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2751.7 lumens  
Efficiency: N/A  
Efficacy: 107.9 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

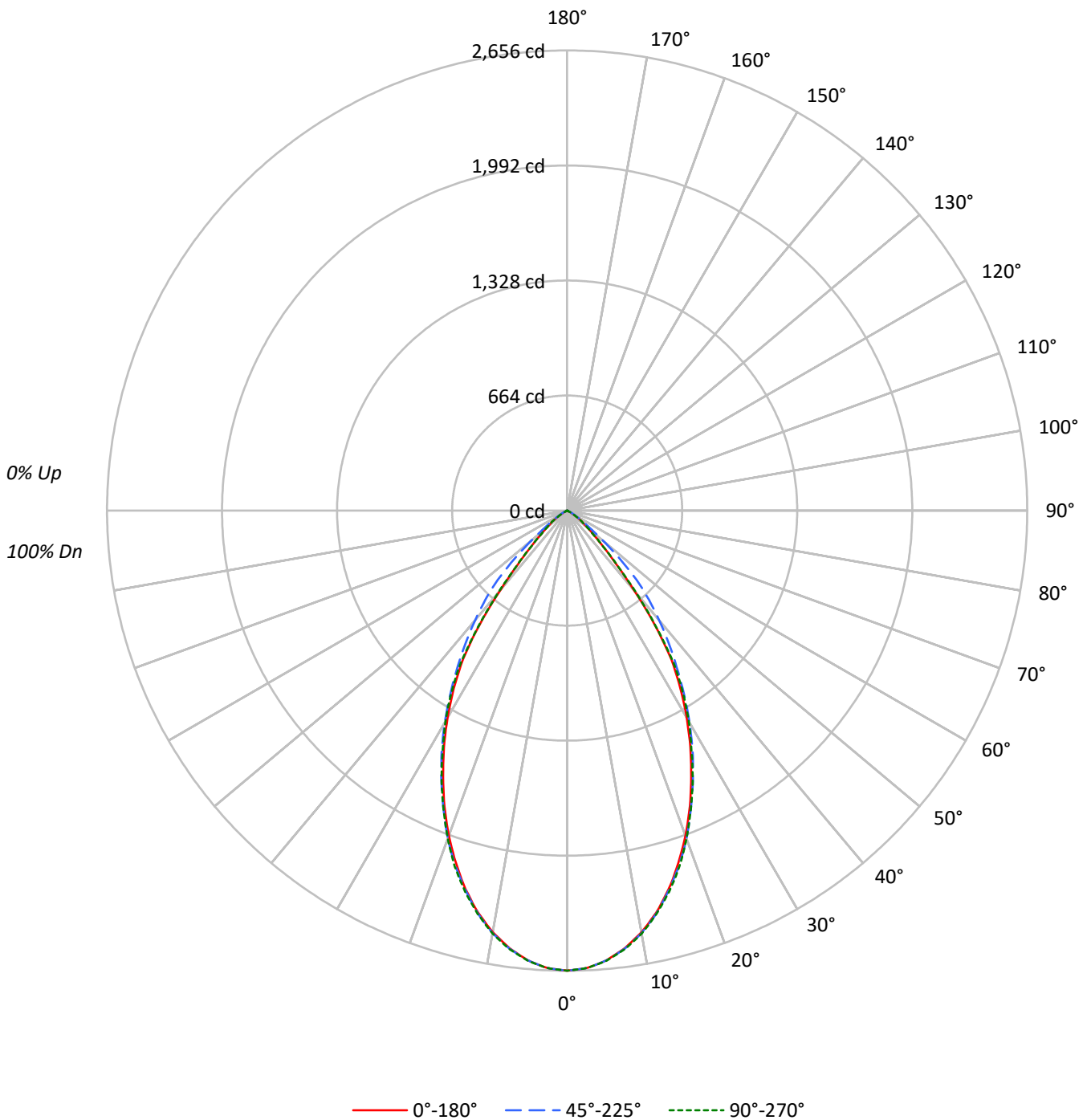
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P238246

CATALOG NUMBER: PRS630D010-S6M24-61SMDH-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P238246

CATALOG NUMBER: PRS630D010-S6M24-61SMDH-4000K

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

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

	0°	45°	90°
0°	114347	114347	114347
5°	112619	112619	112731
10°	108045	108277	108390
15°	100881	101117	101469
20°	91505	92348	92348
25°	80481	81607	81483
30°	68638	70209	69817
35°	55116	57886	56225
40°	33616	46352	34650
45°	17804	34494	17969
50°	10235	17824	10235
55°	6328	7717	6328
60°	2265	3634	2265
65°	540	1345	540
70°	327	327	327
75°	433	433	433
80°	0	0	0
85°	0	0	0



TEST NUMBER: P238246

CATALOG NUMBER: PRS630D010-S6M24-61SMDH-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.7	8.9
10°-20°	633.7	23.0
20°-30°	782.2	28.4
30°-40°	668.0	24.3
40°-50°	319.7	11.6
50°-60°	89.9	3.3
60°-70°	11.8	0.4
70°-80°	1.7	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°	1660.6	60.3
0°-40°	2328.7	84.6
0°-60°	2738.3	99.5
0°-90°	2751.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2751.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2656	2656	2656	2656	2656	
5°	2606	2608	2606	2608	2608	244
15°	2263	2266	2268	2276	2276	631
25°	1694	1702	1718	1718	1715	775
35°	1049	1088	1101	1101	1070	632
45°	292	364	566	366	295	246
55°	84	98	103	95	84	76
65°	5	5	13	5	5	8
75°	3	3	3	3	3	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P238246

CATALOG NUMBER: PRS630D010-S6M24-61SMDH-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2655.8	2655.8	2655.8	2655.8	2655.8
2.5°	2642.6	2642.6	2642.6	2642.6	2642.6
5°	2605.7	2608.3	2605.7	2608.3	2608.3
7.5°	2547.7	2550.4	2550.4	2553.0	2553.0
10°	2471.3	2474.0	2476.6	2476.6	2479.2
12.5°	2376.5	2376.5	2381.8	2384.4	2384.4
15°	2263.2	2265.8	2268.5	2276.4	2276.4
17.5°	2134.1	2139.4	2147.3	2149.9	2155.2
20°	1997.1	1997.1	2015.5	2012.9	2015.5
22.5°	1849.5	1857.5	1865.4	1870.6	1865.4
25°	1694.1	1702.0	1717.8	1717.8	1715.2
27.5°	1538.7	1546.6	1567.6	1559.7	1554.5
30°	1380.6	1388.5	1412.2	1399.0	1404.3
32.5°	1217.2	1240.9	1254.1	1254.1	1240.9
35°	1048.6	1088.1	1101.3	1101.3	1069.7
37.5°	829.9	924.8	961.7	932.7	840.5
40°	598.1	721.9	824.7	735.1	616.5
42.5°	418.9	524.3	698.2	532.2	424.2
45°	292.4	363.6	566.5	366.2	295.1
47.5°	205.5	252.9	411.0	252.9	205.5
50°	152.8	179.2	266.1	176.5	152.8
52.5°	115.9	131.7	163.4	129.1	115.9
55°	84.3	97.5	102.8	94.8	84.3
57.5°	52.7	65.9	65.9	65.9	50.1
60°	26.3	36.9	42.2	36.9	26.3
62.5°	7.9	15.8	26.3	15.8	7.9
65°	5.3	5.3	13.2	5.3	5.3
67.5°	5.3	5.3	5.3	5.3	5.3
70°	2.6	2.6	2.6	2.6	2.6
72.5°	2.6	2.6	2.6	2.6	2.6
75°	2.6	2.6	2.6	2.6	2.6
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)