

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: P252991

Luminaire Tested: **PRS630D010-S6M24-64SWDC-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P252991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-748-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS630D010-S6M24-64SWDC-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2597.9 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.32 / 1.41
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

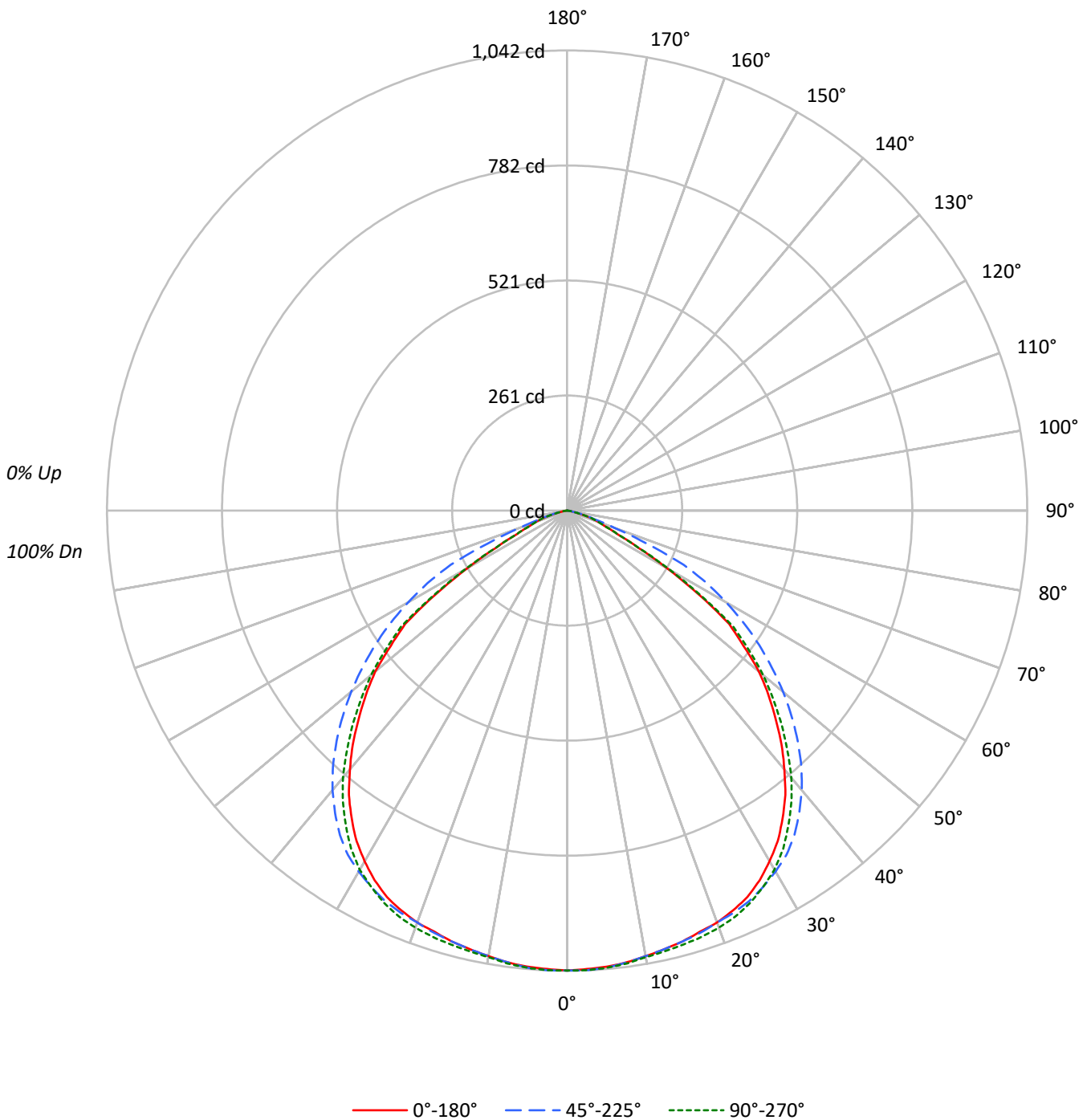
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252991

CATALOG NUMBER: PRS630D010-S6M24-64SWDC-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P252991

CATALOG NUMBER: PRS630D010-S6M24-64SWDC-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			
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90					88				
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78					76				
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67					65				
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59					57				
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52					50				
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46					44				
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41					39				
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36					35				
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33					31				
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	44847	44847	44847
5°	44811	44914	44914
10°	44791	44791	44900
15°	45016	45016	45341
20°	45484	45484	46048
25°	45882	46348	46580
30°	45585	46922	46684
35°	44724	47168	45881
40°	43014	46454	44391
45°	40644	44961	41837
50°	37999	42748	38816
55°	33592	39830	34507
60°	22527	35796	23164
65°	12704	29647	12704
70°	9542	14464	9240
75°	5689	6504	6105
80°	2430	3025	2430
85°	1186	1186	1186



TEST NUMBER: P252991

CATALOG NUMBER: PRS630D010-S6M24-64SWDC-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.7	3.8
10°-20°	286.2	11.0
20°-30°	448.4	17.3
30°-40°	547.9	21.1
40°-50°	544.7	21.0
50°-60°	430.1	16.6
60°-70°	192.5	7.4
70°-80°	44.9	1.7
80°-90°	4.6	0.2
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°	833.3	32.1
0°-40°	1381.2	53.2
0°-60°	2355.9	90.7
0°-90°	2597.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2597.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1042	1042	1042	1042	1042	
5°	1037	1037	1039	1039	1039	99
15°	1010	1007	1010	1012	1017	286
25°	966	968	976	978	980	444
35°	851	868	897	885	873	531
45°	668	699	738	716	687	515
55°	448	482	531	492	460	383
65°	125	164	291	166	125	140
75°	34	42	39	42	37	39
85°	2	2	2	2	2	5
90°	0	0	0	0	0	



TEST NUMBER: P252991

CATALOG NUMBER: PRS630D010-S6M24-64SWDC-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1041.6	1041.6	1041.6	1041.6	1041.6
2.5°	1039.2	1041.6	1041.6	1041.6	1041.6
5°	1036.8	1036.8	1039.2	1039.2	1039.2
7.5°	1031.9	1031.9	1031.9	1034.3	1034.3
10°	1024.5	1024.5	1024.5	1027.0	1027.0
12.5°	1017.2	1017.2	1017.2	1019.6	1022.1
15°	1009.9	1007.4	1009.9	1012.3	1017.2
17.5°	1000.1	1002.5	1002.5	1007.4	1012.3
20°	992.7	992.7	992.7	1000.1	1005.0
22.5°	980.5	980.5	985.4	990.3	995.2
25°	965.8	968.3	975.6	978.1	980.5
27.5°	943.8	951.2	961.0	963.4	961.0
30°	916.9	926.7	943.8	941.4	939.0
32.5°	887.6	899.8	924.3	916.9	909.6
35°	850.9	868.0	897.4	885.2	872.9
37.5°	811.8	833.8	863.2	850.9	833.8
40°	765.3	792.2	826.5	809.4	789.8
42.5°	718.9	748.2	784.9	762.9	738.4
45°	667.5	699.3	738.4	716.4	687.1
47.5°	618.6	650.4	689.5	662.6	633.3
50°	567.3	596.6	638.2	608.9	579.5
52.5°	503.7	542.8	584.4	552.6	518.4
55°	447.5	481.7	530.6	491.5	459.7
57.5°	352.1	420.6	474.4	427.9	361.9
60°	261.6	327.7	415.7	337.4	269.0
62.5°	180.9	242.1	357.0	244.5	183.4
65°	124.7	163.8	291.0	166.3	124.7
67.5°	92.9	110.0	195.6	110.0	92.9
70°	75.8	80.7	114.9	80.7	73.4
72.5°	56.2	63.6	63.6	63.6	58.7
75°	34.2	41.6	39.1	41.6	36.7
77.5°	14.7	19.6	24.5	22.0	14.7
80°	9.8	9.8	12.2	9.8	9.8
82.5°	7.3	7.3	7.3	7.3	7.3
85°	2.4	2.4	2.4	2.4	2.4
87.5°	2.4	2.4	2.4	2.4	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)