

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: P253001

Luminaire Tested: **PRS630D010-S6M24-64SWDC-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253001
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-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2745.9 lumens
Efficiency: N/A
Efficacy: 107.7 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

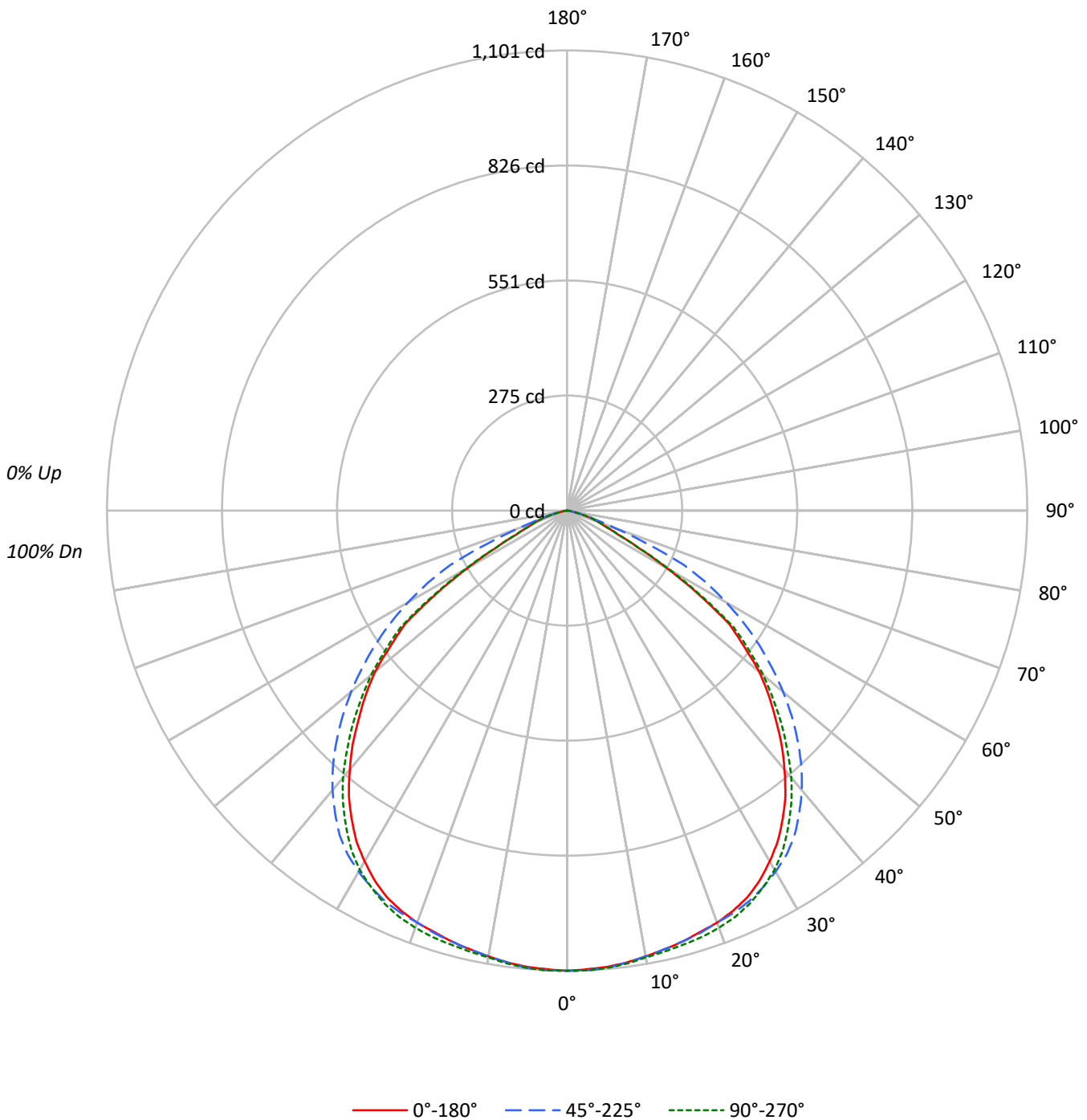
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253001

CATALOG NUMBER: PRS630D010-S6M24-64SWDC-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P253001

CATALOG NUMBER: PRS630D010-S6M24-64SWDC-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	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°	47404	47404	47404
5°	47361	47473	47473
10°	47344	47344	47458
15°	47579	47579	47922
20°	48078	48078	48669
25°	48500	48989	49236
30°	48185	49597	49339
35°	47274	49854	48493
40°	45464	49095	46920
45°	42964	47525	44218
50°	40163	45180	41027
55°	35506	42097	36474
60°	23810	37837	24481
65°	13428	31328	13428
70°	10083	15295	9756
75°	6022	6887	6455
80°	2554	3199	2554
85°	1284	1284	1284



TEST NUMBER: P253001

CATALOG NUMBER: PRS630D010-S6M24-64SWDC-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.3	3.8
10°-20°	302.5	11.0
20°-30°	474.0	17.3
30°-40°	579.1	21.1
40°-50°	575.7	21.0
50°-60°	454.5	16.6
60°-70°	203.5	7.4
70°-80°	47.4	1.7
80°-90°	4.9	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°	880.8	32.1
0°-40°	1459.9	53.2
0°-60°	2490.1	90.7
0°-90°	2745.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2745.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1101	1101	1101	1101	1101	
5°	1096	1096	1098	1098	1098	104
15°	1067	1065	1067	1070	1075	302
25°	1021	1023	1031	1034	1036	469
35°	899	918	948	936	923	561
45°	706	739	780	757	726	544
55°	473	509	561	520	486	404
65°	132	173	308	176	132	148
75°	36	44	41	44	39	41
85°	3	3	3	3	3	5
90°	0	0	0	0	0	



TEST NUMBER: P253001

CATALOG NUMBER: PRS630D010-S6M24-64SWDC-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1101.0	1101.0	1101.0	1101.0	1101.0
2.5°	1098.4	1101.0	1101.0	1101.0	1101.0
5°	1095.8	1095.8	1098.4	1098.4	1098.4
7.5°	1090.6	1090.6	1090.6	1093.2	1093.2
10°	1082.9	1082.9	1082.9	1085.5	1085.5
12.5°	1075.1	1075.1	1075.1	1077.7	1080.3
15°	1067.4	1064.8	1067.4	1070.0	1075.1
17.5°	1057.0	1059.6	1059.6	1064.8	1070.0
20°	1049.3	1049.3	1049.3	1057.0	1062.2
22.5°	1036.4	1036.4	1041.5	1046.7	1051.9
25°	1020.9	1023.4	1031.2	1033.8	1036.4
27.5°	997.6	1005.3	1015.7	1018.3	1015.7
30°	969.2	979.5	997.6	995.0	992.4
32.5°	938.2	951.1	976.9	969.2	961.4
35°	899.4	917.5	948.5	935.6	922.6
37.5°	858.0	881.3	912.3	899.4	881.3
40°	808.9	837.4	873.5	855.4	834.8
42.5°	759.8	790.8	829.6	806.3	780.5
45°	705.6	739.1	780.5	757.2	726.2
47.5°	653.9	687.5	728.8	700.4	669.4
50°	599.6	630.6	674.5	643.5	612.5
52.5°	532.4	573.7	617.7	584.1	547.9
55°	473.0	509.1	560.8	519.5	485.9
57.5°	372.2	444.5	501.4	452.3	382.5
60°	276.5	346.3	439.4	356.7	284.3
62.5°	191.2	255.9	377.3	258.4	193.8
65°	131.8	173.2	307.5	175.7	131.8
67.5°	98.2	116.3	206.8	116.3	98.2
70°	80.1	85.3	121.5	85.3	77.5
72.5°	59.4	67.2	67.2	67.2	62.0
75°	36.2	43.9	41.4	43.9	38.8
77.5°	15.5	20.7	25.8	23.3	15.5
80°	10.3	10.3	12.9	10.3	10.3
82.5°	7.8	7.8	7.8	7.8	7.8
85°	2.6	2.6	2.6	2.6	2.6
87.5°	2.6	2.6	2.6	2.6	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)