

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: P253028

Luminaire Tested: **PRS610D010-S6M12-64SWDMW-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253028
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: PRS610D010-S6M12-64SWDMW-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1056.0 lumens
Efficiency: N/A
Efficacy: 105.6 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

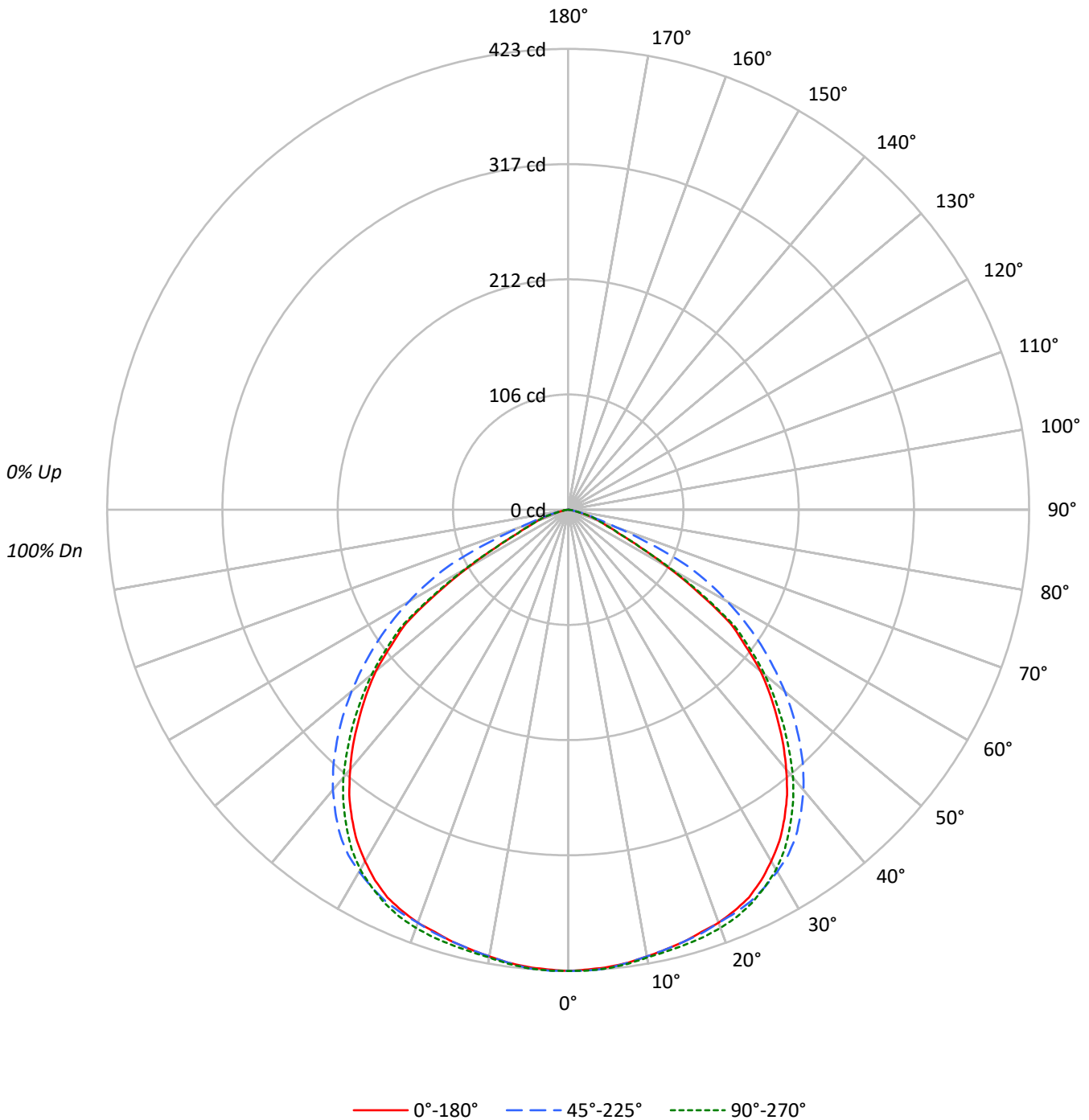
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253028

CATALOG NUMBER: PRS610D010-S6M12-64SWDMW-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P253028

CATALOG NUMBER: PRS610D010-S6M12-64SWDMW-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°	18230	18230	18230
5°	18213	18256	18256
10°	18205	18205	18249
15°	18298	18298	18432
20°	18488	18488	18717
25°	18651	18841	18931
30°	18529	19071	18972
35°	18181	19174	18649
40°	17485	18879	18042
45°	16519	18273	17007
50°	15446	17375	15774
55°	13654	16192	14022
60°	9154	14553	9412
65°	5165	12052	5165
70°	3877	5879	3751
75°	2312	2645	2479
80°	992	1240	992
85°	494	494	494



TEST NUMBER: P253028

CATALOG NUMBER: PRS610D010-S6M12-64SWDMW-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.1	3.8
10°-20°	116.3	11.0
20°-30°	182.3	17.3
30°-40°	222.7	21.1
40°-50°	221.4	21.0
50°-60°	174.8	16.6
60°-70°	78.2	7.4
70°-80°	18.2	1.7
80°-90°	1.9	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°	338.7	32.1
0°-40°	561.4	53.2
0°-60°	957.6	90.7
0°-90°	1056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1056.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	423	423	423	423	423	
5°	421	421	422	422	422	40
15°	410	410	410	412	414	116
25°	393	394	397	398	398	180
35°	346	353	365	360	355	216
45°	271	284	300	291	279	209
55°	182	196	216	200	187	156
65°	51	67	118	68	51	57
75°	14	17	16	17	15	16
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



TEST NUMBER: P253028

CATALOG NUMBER: PRS610D010-S6M12-64SWDMW-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	423.4	423.4	423.4	423.4	423.4
2.5°	422.4	423.4	423.4	423.4	423.4
5°	421.4	421.4	422.4	422.4	422.4
7.5°	419.4	419.4	419.4	420.4	420.4
10°	416.4	416.4	416.4	417.4	417.4
12.5°	413.5	413.5	413.5	414.4	415.4
15°	410.5	409.5	410.5	411.5	413.5
17.5°	406.5	407.5	407.5	409.5	411.5
20°	403.5	403.5	403.5	406.5	408.5
22.5°	398.5	398.5	400.5	402.5	404.5
25°	392.6	393.6	396.6	397.5	398.5
27.5°	383.6	386.6	390.6	391.6	390.6
30°	372.7	376.7	383.6	382.6	381.6
32.5°	360.8	365.7	375.7	372.7	369.7
35°	345.9	352.8	364.8	359.8	354.8
37.5°	330.0	338.9	350.8	345.9	338.9
40°	311.1	322.0	335.9	329.0	321.0
42.5°	292.2	304.1	319.0	310.1	300.1
45°	271.3	284.2	300.1	291.2	279.3
47.5°	251.4	264.4	280.3	269.3	257.4
50°	230.6	242.5	259.4	247.5	235.5
52.5°	204.7	220.6	237.5	224.6	210.7
55°	181.9	195.8	215.7	199.8	186.8
57.5°	143.1	170.9	192.8	173.9	147.1
60°	106.3	133.2	169.0	137.2	109.3
62.5°	73.5	98.4	145.1	99.4	74.5
65°	50.7	66.6	118.3	67.6	50.7
67.5°	37.8	44.7	79.5	44.7	37.8
70°	30.8	32.8	46.7	32.8	29.8
72.5°	22.9	25.8	25.8	25.8	23.9
75°	13.9	16.9	15.9	16.9	14.9
77.5°	6.0	8.0	9.9	8.9	6.0
80°	4.0	4.0	5.0	4.0	4.0
82.5°	3.0	3.0	3.0	3.0	3.0
85°	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)