

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: P253033

Luminaire Tested: **PRS610D010-S6M12-64SWDMB-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253033
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-S6M12-64SWDMB-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 922.7 lumens
Efficiency: N/A
Efficacy: 92.3 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

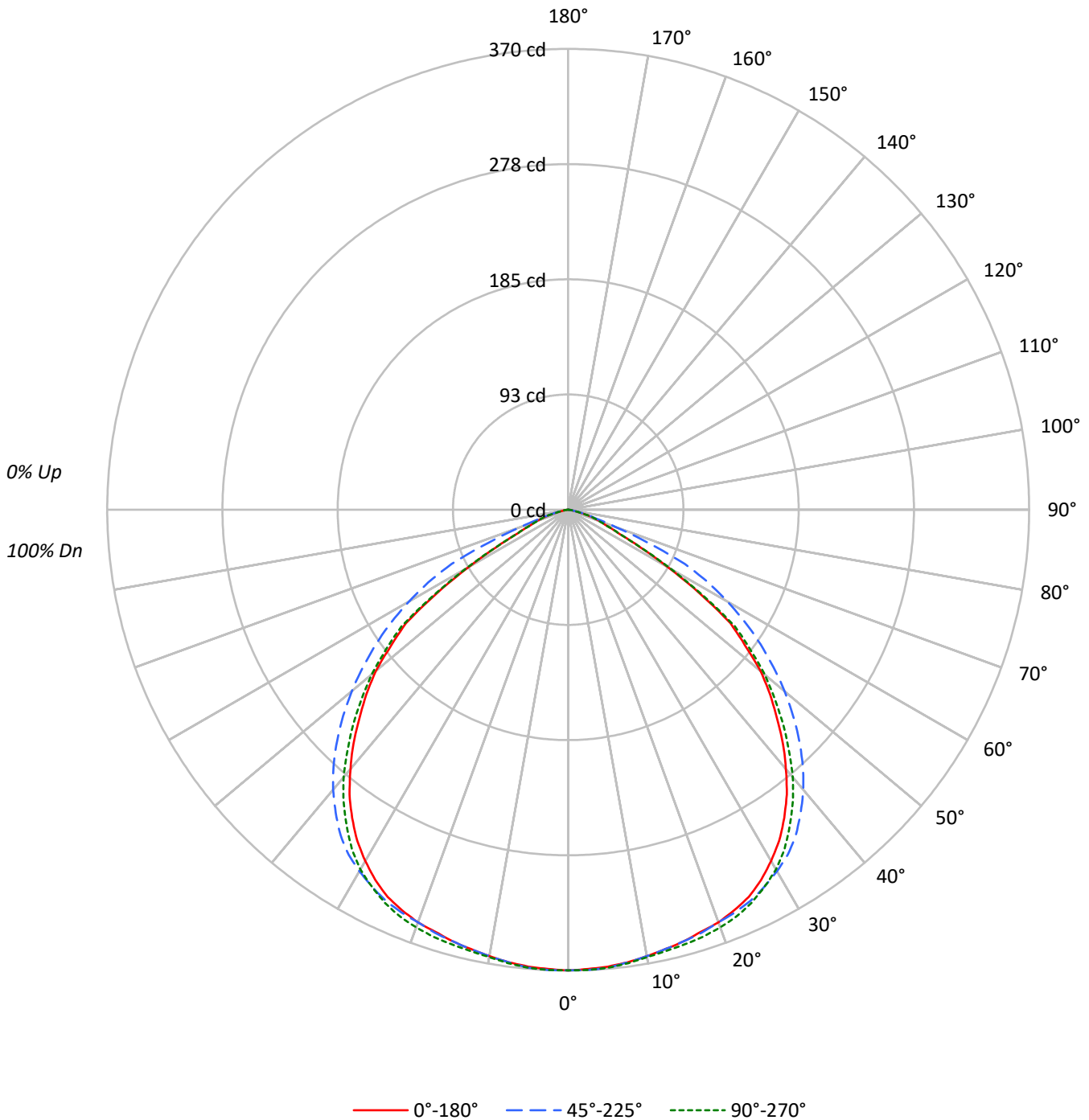
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253033

CATALOG NUMBER: PRS610D010-S6M12-64SWDMB-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P253033

CATALOG NUMBER: PRS610D010-S6M12-64SWDMB-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°	15926	15926	15926
5°	15914	15953	15953
10°	15910	15910	15945
15°	15989	15989	16105
20°	16156	16156	16353
25°	16295	16461	16542
30°	16193	16665	16580
35°	15884	16751	16294
40°	15277	16496	15766
45°	14437	15971	14857
50°	13497	15185	13785
55°	11928	14142	12258
60°	8000	12710	8224
65°	4513	10524	4513
70°	3386	5136	3286
75°	2030	2312	2163
80°	868	1066	868
85°	445	445	445



TEST NUMBER: P253033

CATALOG NUMBER: PRS610D010-S6M12-64SWDMB-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.1	3.8
10°-20°	101.7	11.0
20°-30°	159.3	17.3
30°-40°	194.6	21.1
40°-50°	193.4	21.0
50°-60°	152.7	16.6
60°-70°	68.4	7.4
70°-80°	15.9	1.7
80°-90°	1.7	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°	296.0	32.1
0°-40°	490.6	53.2
0°-60°	836.7	90.7
0°-90°	922.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	922.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	370	370	370	370	370	
5°	368	368	369	369	369	35
15°	359	358	359	360	361	101
25°	343	344	346	347	348	158
35°	302	308	319	314	310	188
45°	237	248	262	254	244	183
55°	159	171	188	175	163	136
65°	44	58	103	59	44	50
75°	12	15	14	15	13	14
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



TEST NUMBER: P253033

CATALOG NUMBER: PRS610D010-S6M12-64SWDMB-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	369.9	369.9	369.9	369.9	369.9
2.5°	369.1	369.9	369.9	369.9	369.9
5°	368.2	368.2	369.1	369.1	369.1
7.5°	366.5	366.5	366.5	367.3	367.3
10°	363.9	363.9	363.9	364.7	364.7
12.5°	361.3	361.3	361.3	362.1	363.0
15°	358.7	357.8	358.7	359.5	361.3
17.5°	355.2	356.1	356.1	357.8	359.5
20°	352.6	352.6	352.6	355.2	356.9
22.5°	348.2	348.2	350.0	351.7	353.4
25°	343.0	343.9	346.5	347.4	348.2
27.5°	335.2	337.8	341.3	342.2	341.3
30°	325.7	329.1	335.2	334.3	333.5
32.5°	315.2	319.6	328.3	325.7	323.1
35°	302.2	308.3	318.7	314.4	310.0
37.5°	288.3	296.1	306.6	302.2	296.1
40°	271.8	281.4	293.5	287.4	280.5
42.5°	255.3	265.7	278.8	270.9	262.3
45°	237.1	248.4	262.3	254.4	244.0
47.5°	219.7	231.0	244.9	235.3	224.9
50°	201.5	211.9	226.7	216.2	205.8
52.5°	178.9	192.8	207.6	196.3	184.1
55°	158.9	171.1	188.4	174.6	163.3
57.5°	125.1	149.4	168.5	152.0	128.5
60°	92.9	116.4	147.6	119.8	95.5
62.5°	64.3	86.0	126.8	86.8	65.1
65°	44.3	58.2	103.3	59.1	44.3
67.5°	33.0	39.1	69.5	39.1	33.0
70°	26.9	28.7	40.8	28.7	26.1
72.5°	20.0	22.6	22.6	22.6	20.8
75°	12.2	14.8	13.9	14.8	13.0
77.5°	5.2	6.9	8.7	7.8	5.2
80°	3.5	3.5	4.3	3.5	3.5
82.5°	2.6	2.6	2.6	2.6	2.6
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.9	0.9	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)