

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: P253090

Luminaire Tested: **PRS620D010-S6M12-61SWDMW-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253090
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1805-776-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS620D010-S6M12-61SWDMW-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP 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: 2088.5 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

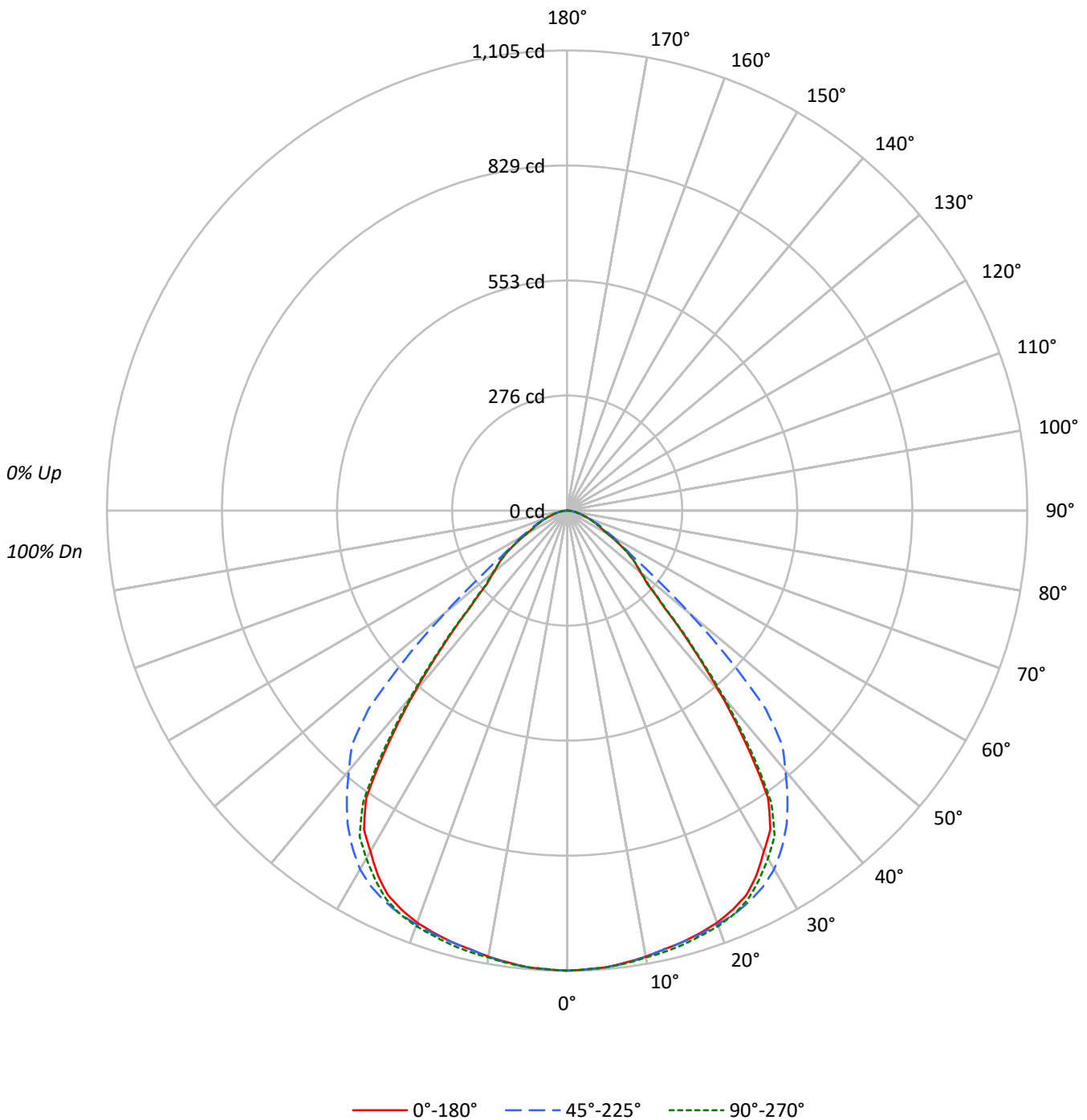
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253090

CATALOG NUMBER: PRS620D010-S6M12-61SWDMW-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P253090

CATALOG NUMBER: PRS620D010-S6M12-61SWDMW-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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	77	71	66	74	69	65	72	68	65	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56					56			
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51					51			
7	73	61	54	49	71	61	53	48	59	53	48	58	52	48	57	51	47	46					46			
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42					42			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	40	38					38			
10	60	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35					35			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	47568	47568	47568
5°	47564	47564	47564
10°	47545	47545	47642
15°	47802	47802	48087
20°	48243	48440	48637
25°	48376	49198	48889
30°	46972	49443	47942
35°	44204	48299	44887
40°	32082	45813	32807
45°	20142	41070	20538
50°	15352	25775	15640
55°	13467	14443	13467
60°	9868	10988	9868
65°	8150	8812	8150
70°	6810	7075	6810
75°	5756	5756	5756
80°	4835	4835	4835
85°	4248	4248	4248



TEST NUMBER: P253090

CATALOG NUMBER: PRS620D010-S6M12-61SWDMW-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	5.0
10°-20°	303.9	14.6
20°-30°	472.9	22.6
30°-40°	540.4	25.9
40°-50°	361.6	17.3
50°-60°	173.0	8.3
60°-70°	84.4	4.0
70°-80°	38.0	1.8
80°-90°	9.7	0.5
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°	881.5	42.2
0°-40°	1421.9	68.1
0°-60°	1956.5	93.7
0°-90°	2088.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2088.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1105	1105	1105	1105	1105	
5°	1100	1100	1100	1100	1100	105
15°	1072	1072	1072	1077	1079	303
25°	1018	1025	1036	1033	1029	466
35°	841	889	919	902	854	500
45°	331	426	674	432	337	274
55°	179	192	192	195	179	156
65°	80	82	86	82	80	80
75°	35	35	35	35	35	37
85°	9	9	9	9	9	10
90°	0	0	0	0	0	



TEST NUMBER: P253090

CATALOG NUMBER: PRS620D010-S6M12-61SWDMW-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1104.8	1104.8	1104.8	1104.8	1104.8
2.5°	1102.6	1102.6	1102.6	1102.6	1102.6
5°	1100.5	1100.5	1100.5	1100.5	1100.5
7.5°	1094.0	1094.0	1096.1	1094.0	1096.1
10°	1087.5	1087.5	1087.5	1089.7	1089.7
12.5°	1078.8	1078.8	1078.8	1083.2	1085.3
15°	1072.4	1072.4	1072.4	1076.7	1078.8
17.5°	1063.7	1063.7	1065.9	1070.2	1070.2
20°	1052.9	1055.1	1057.2	1061.5	1061.5
22.5°	1037.8	1042.1	1048.6	1050.7	1048.6
25°	1018.3	1024.8	1035.6	1033.4	1029.1
27.5°	985.9	1001.0	1018.3	1009.7	998.8
30°	944.8	968.6	994.5	977.2	964.3
32.5°	908.0	927.5	959.9	940.5	927.5
35°	841.0	888.6	918.9	901.6	854.0
37.5°	704.8	810.8	869.1	823.7	722.1
40°	570.8	683.2	815.1	691.8	583.7
42.5°	443.2	551.3	765.4	560.0	451.9
45°	330.8	425.9	674.5	432.4	337.3
47.5°	261.6	315.7	525.4	322.1	265.9
50°	229.2	250.8	384.8	255.1	233.5
52.5°	205.4	218.4	268.1	220.5	205.4
55°	179.4	192.4	192.4	194.6	179.4
57.5°	144.9	164.3	151.3	164.3	147.0
60°	114.6	129.7	127.6	129.7	114.6
62.5°	93.0	101.6	103.8	101.6	93.0
65°	80.0	82.2	86.5	82.2	80.0
67.5°	67.0	69.2	69.2	69.2	64.9
70°	54.1	56.2	56.2	56.2	54.1
72.5°	43.2	45.4	45.4	45.4	43.2
75°	34.6	34.6	34.6	34.6	34.6
77.5°	25.9	28.1	25.9	28.1	25.9
80°	19.5	19.5	19.5	19.5	19.5
82.5°	13.0	13.0	13.0	13.0	13.0
85°	8.6	8.6	8.6	8.6	8.6
87.5°	4.3	4.3	4.3	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)