

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: P253015

Luminaire Tested: **PRS620D010-S6M12-64SWDH-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253015
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: PRS620D010-S6M12-64SWDH-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2234.0 lumens
Efficiency: N/A
Efficacy: 111.7 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

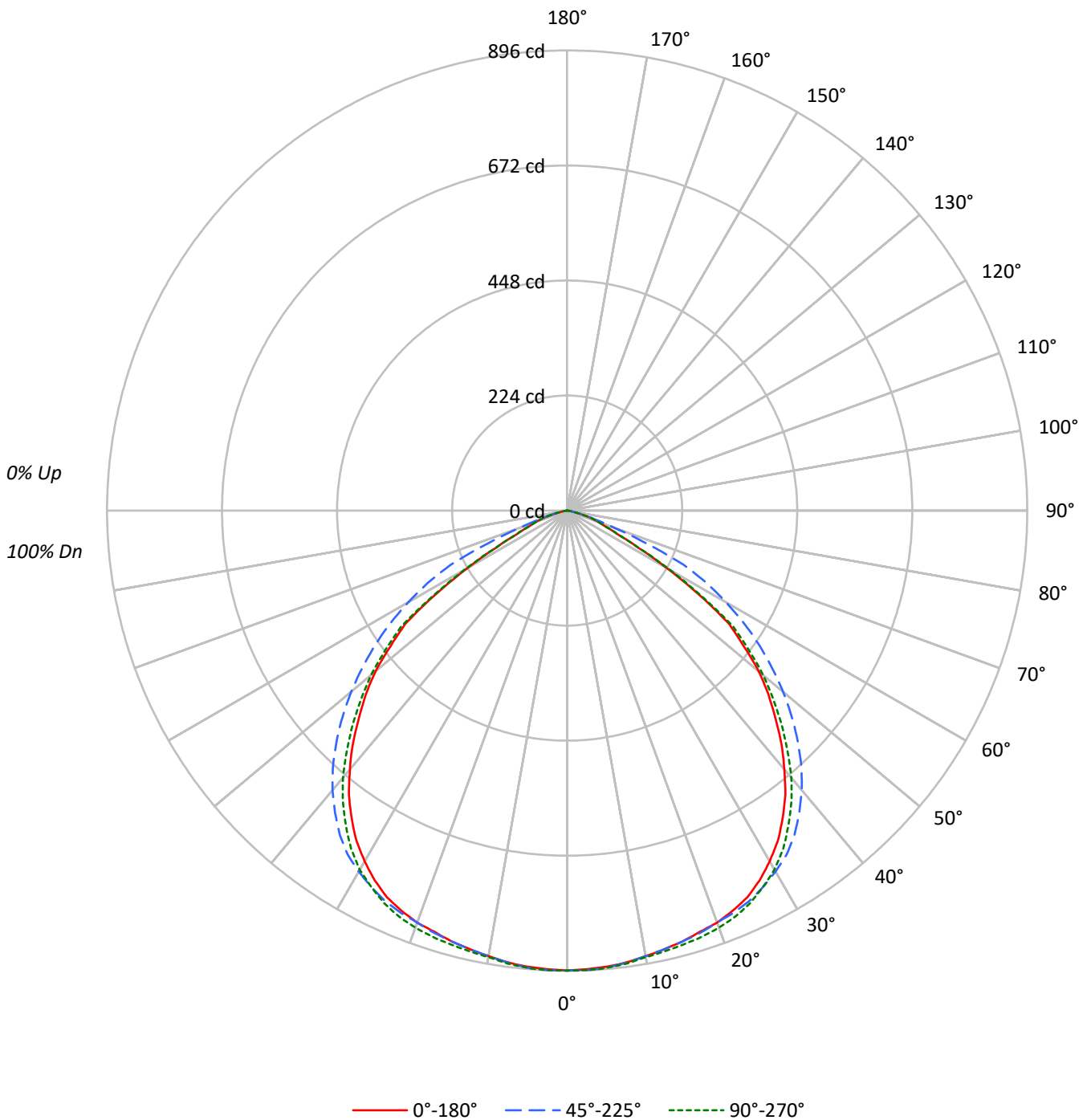
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253015

CATALOG NUMBER: PRS620D010-S6M12-64SWDH-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P253015

CATALOG NUMBER: PRS620D010-S6M12-64SWDH-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°	38565	38565	38565
5°	38531	38622	38622
10°	38517	38517	38609
15°	38708	38708	38989
20°	39116	39116	39597
25°	39454	39853	40058
30°	39201	40350	40141
35°	38459	40562	39452
40°	36989	39945	38169
45°	34951	38665	35974
50°	32674	36760	33377
55°	28885	34252	29673
60°	19375	30776	19918
65°	10921	25490	10921
70°	8208	12438	7943
75°	4891	5590	5240
80°	2083	2603	2083
85°	1037	1037	1037



TEST NUMBER: P253015

CATALOG NUMBER: PRS620D010-S6M12-64SWDH-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	3.8
10°-20°	246.1	11.0
20°-30°	385.6	17.3
30°-40°	471.1	21.1
40°-50°	468.4	21.0
50°-60°	369.8	16.6
60°-70°	165.5	7.4
70°-80°	38.5	1.7
80°-90°	4.0	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°	716.6	32.1
0°-40°	1187.7	53.2
0°-60°	2025.9	90.7
0°-90°	2234.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2234.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	896	896	896	896	896	
5°	892	892	894	894	894	85
15°	868	866	868	870	875	246
25°	830	833	839	841	843	382
35°	732	746	772	761	751	456
45°	574	601	635	616	591	443
55°	385	414	456	423	395	329
65°	107	141	250	143	107	120
75°	29	36	34	36	32	33
85°	2	2	2	2	2	4
90°	0	0	0	0	0	



TEST NUMBER: P253015

CATALOG NUMBER: PRS620D010-S6M12-64SWDH-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	895.7	895.7	895.7	895.7	895.7
2.5°	893.6	895.7	895.7	895.7	895.7
5°	891.5	891.5	893.6	893.6	893.6
7.5°	887.3	887.3	887.3	889.4	889.4
10°	881.0	881.0	881.0	883.1	883.1
12.5°	874.7	874.7	874.7	876.8	878.9
15°	868.4	866.3	868.4	870.5	874.7
17.5°	860.0	862.1	862.1	866.3	870.5
20°	853.7	853.7	853.7	860.0	864.2
22.5°	843.2	843.2	847.4	851.6	855.8
25°	830.5	832.6	838.9	841.1	843.2
27.5°	811.6	817.9	826.3	828.4	826.3
30°	788.5	796.9	811.6	809.5	807.4
32.5°	763.3	773.8	794.8	788.5	782.2
35°	731.7	746.4	771.7	761.2	750.6
37.5°	698.1	717.0	742.2	731.7	717.0
40°	658.1	681.3	710.7	696.0	679.1
42.5°	618.2	643.4	674.9	656.0	635.0
45°	574.0	601.4	635.0	616.1	590.8
47.5°	532.0	559.3	592.9	569.8	544.6
50°	487.8	513.0	548.8	523.6	498.3
52.5°	433.1	466.8	502.5	475.2	445.8
55°	384.8	414.2	456.3	422.6	395.3
57.5°	302.8	361.7	407.9	368.0	311.2
60°	225.0	281.8	357.4	290.2	231.3
62.5°	155.6	208.2	307.0	210.3	157.7
65°	107.2	140.9	250.2	143.0	107.2
67.5°	79.9	94.6	168.2	94.6	79.9
70°	65.2	69.4	98.8	69.4	63.1
72.5°	48.4	54.7	54.7	54.7	50.5
75°	29.4	35.7	33.6	35.7	31.5
77.5°	12.6	16.8	21.0	18.9	12.6
80°	8.4	8.4	10.5	8.4	8.4
82.5°	6.3	6.3	6.3	6.3	6.3
85°	2.1	2.1	2.1	2.1	2.1
87.5°	2.1	2.1	2.1	2.1	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)