

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: P252989

Luminaire Tested: **PRS615D010-S6M12-64SWDC-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P252989
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: PRS615D010-S6M12-64SWDC-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1327.8 lumens
Efficiency: N/A
Efficacy: 105.4 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

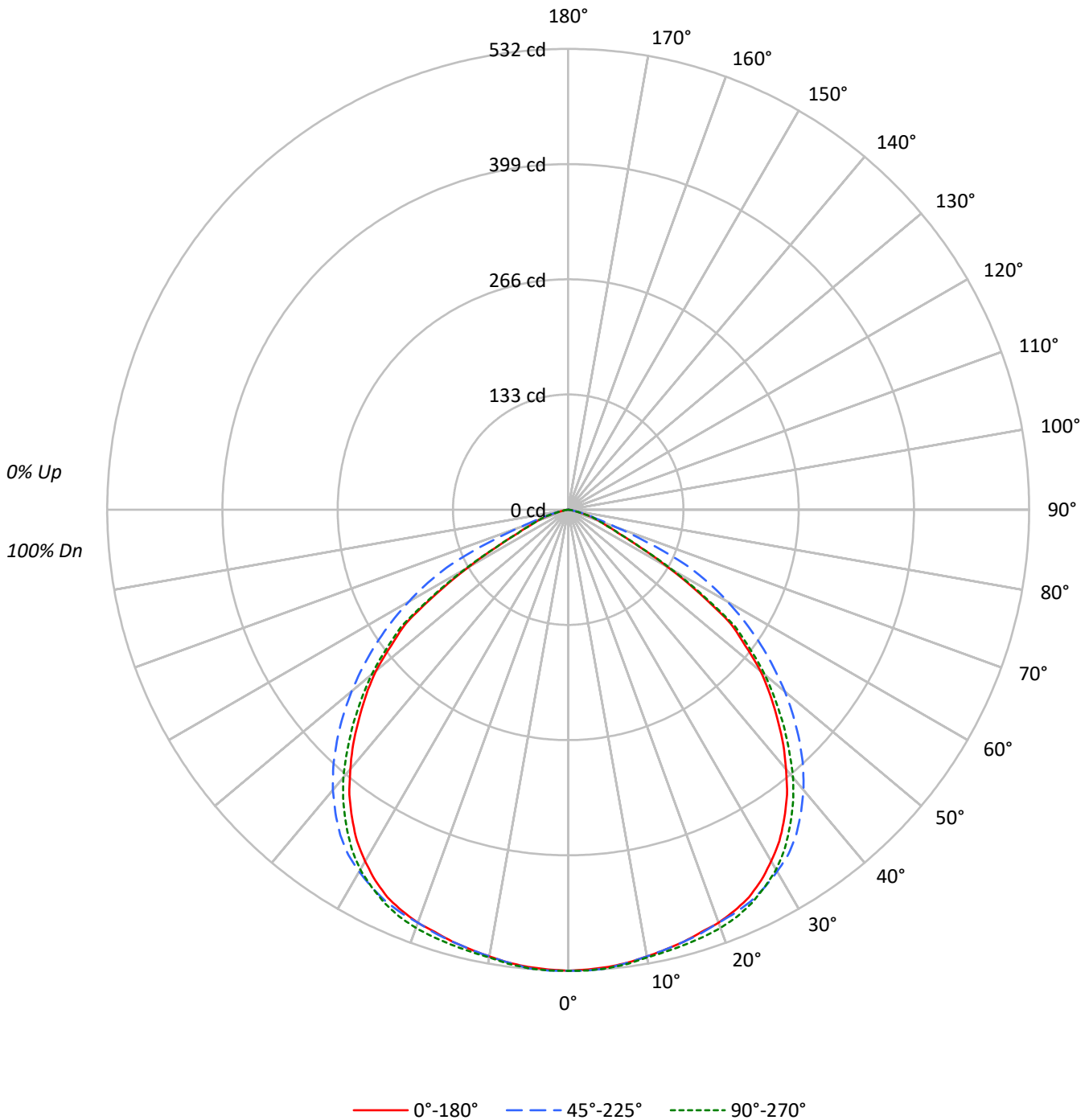
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	69	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°	22923	22923	22923
5°	22902	22959	22959
10°	22896	22896	22949
15°	23009	23009	23174
20°	23248	23248	23537
25°	23454	23692	23810
30°	23302	23983	23859
35°	22859	24110	23453
40°	21987	23741	22690
45°	20776	22980	21385
50°	19425	21850	19840
55°	17167	20358	17640
60°	11513	18299	11840
65°	6490	15149	6490
70°	4872	7390	4721
75°	2911	3327	3111
80°	1240	1537	1240
85°	593	593	593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.4	3.8
10°-20°	146.3	11.0
20°-30°	229.2	17.3
30°-40°	280.0	21.1
40°-50°	278.4	21.0
50°-60°	219.8	16.6
60°-70°	98.4	7.4
70°-80°	22.9	1.7
80°-90°	2.3	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°	426.0	32.1
0°-40°	706.0	53.2
0°-60°	1204.2	90.7
0°-90°	1327.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1327.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	532	532	532	532	532	
5°	530	530	531	531	531	50
15°	516	515	516	517	520	146
25°	494	495	499	500	501	227
35°	435	444	459	452	446	271
45°	341	357	377	366	351	263
55°	229	246	271	251	235	196
65°	64	84	149	85	64	71
75°	18	21	20	21	19	20
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	532.4	532.4	532.4	532.4	532.4
2.5°	531.2	532.4	532.4	532.4	532.4
5°	529.9	529.9	531.2	531.2	531.2
7.5°	527.4	527.4	527.4	528.7	528.7
10°	523.7	523.7	523.7	524.9	524.9
12.5°	519.9	519.9	519.9	521.2	522.4
15°	516.2	514.9	516.2	517.4	519.9
17.5°	511.2	512.4	512.4	514.9	517.4
20°	507.4	507.4	507.4	511.2	513.7
22.5°	501.2	501.2	503.7	506.2	508.7
25°	493.7	494.9	498.7	499.9	501.2
27.5°	482.4	486.2	491.2	492.4	491.2
30°	468.7	473.7	482.4	481.2	479.9
32.5°	453.7	459.9	472.4	468.7	464.9
35°	434.9	443.7	458.7	452.4	446.2
37.5°	414.9	426.2	441.2	434.9	426.2
40°	391.2	404.9	422.4	413.7	403.7
42.5°	367.4	382.4	401.2	389.9	377.4
45°	341.2	357.4	377.4	366.2	351.2
47.5°	316.2	332.4	352.4	338.7	323.7
50°	290.0	305.0	326.2	311.2	296.2
52.5°	257.5	277.5	298.7	282.5	265.0
55°	228.7	246.2	271.2	251.2	235.0
57.5°	180.0	215.0	242.5	218.7	185.0
60°	133.7	167.5	212.5	172.5	137.5
62.5°	92.5	123.7	182.5	125.0	93.7
65°	63.7	83.7	148.7	85.0	63.7
67.5°	47.5	56.2	100.0	56.2	47.5
70°	38.7	41.2	58.7	41.2	37.5
72.5°	28.7	32.5	32.5	32.5	30.0
75°	17.5	21.2	20.0	21.2	18.7
77.5°	7.5	10.0	12.5	11.2	7.5
80°	5.0	5.0	6.2	5.0	5.0
82.5°	3.7	3.7	3.7	3.7	3.7
85°	1.2	1.2	1.2	1.2	1.2
87.5°	1.2	1.2	1.2	1.2	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)