

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: P252990

Luminaire Tested: **PRS620D010-S6M12-64SWDC-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P252990
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-S6M12-64SWDC-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: 2164.9 lumens
Efficiency: N/A
Efficacy: 108.2 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

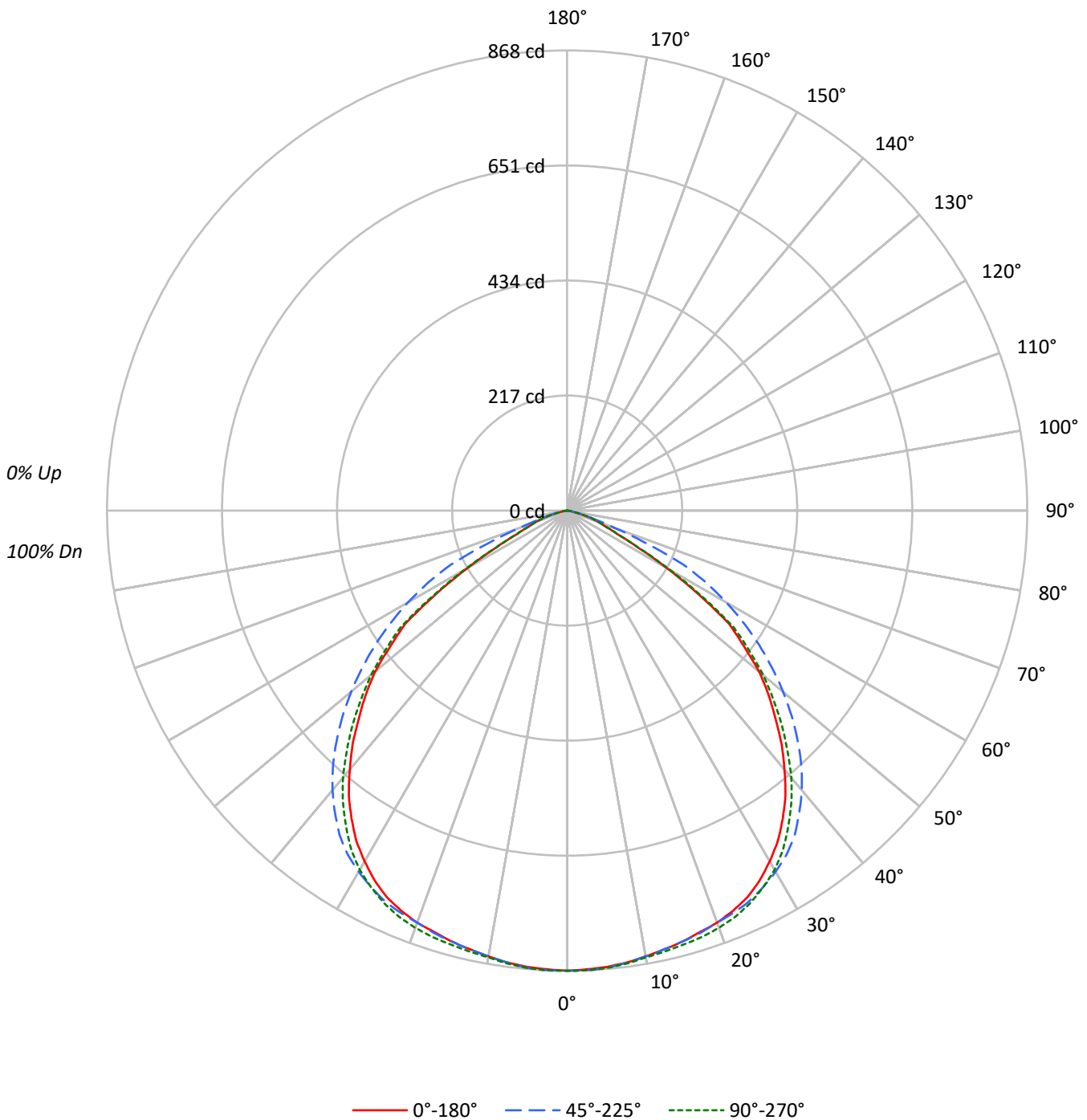
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	37372	37372	37372
5°	37338	37429	37429
10°	37328	37328	37415
15°	37509	37509	37781
20°	37906	37906	38373
25°	38238	38623	38818
30°	37988	39102	38898
35°	37271	39305	38233
40°	35848	38709	36989
45°	33873	37472	34866
50°	31663	35621	32346
55°	27992	33194	28757
60°	18772	29829	19298
65°	10585	24706	10585
70°	7956	12060	7692
75°	4741	5423	5090
80°	2033	2529	2033
85°	988	988	988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.2	3.8
10°-20°	238.5	11.0
20°-30°	373.7	17.3
30°-40°	456.5	21.1
40°-50°	453.9	21.0
50°-60°	358.4	16.6
60°-70°	160.4	7.4
70°-80°	37.4	1.7
80°-90°	3.9	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°	694.4	32.1
0°-40°	1151.0	53.2
0°-60°	1963.2	90.7
0°-90°	2164.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2164.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	868	868	868	868	868	
5°	864	864	866	866	866	82
15°	842	840	842	844	848	238
25°	805	807	813	815	817	370
35°	709	723	748	738	727	442
45°	556	583	615	597	573	429
55°	373	401	442	410	383	319
65°	104	136	242	139	104	116
75°	28	35	33	35	31	32
85°	2	2	2	2	2	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	868.0	868.0	868.0	868.0	868.0
2.5°	866.0	868.0	868.0	868.0	868.0
5°	863.9	863.9	866.0	866.0	866.0
7.5°	859.9	859.9	859.9	861.9	861.9
10°	853.8	853.8	853.8	855.8	855.8
12.5°	847.6	847.6	847.6	849.7	851.7
15°	841.5	839.5	841.5	843.6	847.6
17.5°	833.4	835.4	835.4	839.5	843.6
20°	827.3	827.3	827.3	833.4	837.5
22.5°	817.1	817.1	821.2	825.2	829.3
25°	804.9	806.9	813.0	815.0	817.1
27.5°	786.5	792.6	800.8	802.8	800.8
30°	764.1	772.3	786.5	784.5	782.4
32.5°	739.6	749.8	770.2	764.1	758.0
35°	709.1	723.3	747.8	737.6	727.4
37.5°	676.5	694.8	719.3	709.1	694.8
40°	637.8	660.2	688.7	674.4	658.1
42.5°	599.1	623.5	654.1	635.7	615.4
45°	556.3	582.8	615.4	597.0	572.6
47.5°	515.5	542.0	574.6	552.2	527.7
50°	472.7	497.2	531.8	507.4	482.9
52.5°	419.7	452.3	487.0	460.5	432.0
55°	372.9	401.4	442.2	409.6	383.1
57.5°	293.4	350.5	395.3	356.6	301.6
60°	218.0	273.0	346.4	281.2	224.1
62.5°	150.8	201.7	297.5	203.8	152.8
65°	103.9	136.5	242.5	138.6	103.9
67.5°	77.4	91.7	163.0	91.7	77.4
70°	63.2	67.2	95.8	67.2	61.1
72.5°	46.9	53.0	53.0	53.0	48.9
75°	28.5	34.6	32.6	34.6	30.6
77.5°	12.2	16.3	20.4	18.3	12.2
80°	8.2	8.2	10.2	8.2	8.2
82.5°	6.1	6.1	6.1	6.1	6.1
85°	2.0	2.0	2.0	2.0	2.0
87.5°	2.0	2.0	2.0	2.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)