

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: P253075

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253075  
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-S6M12-61SWDH-4000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2007.5 lumens  
Efficiency: N/A  
Efficacy: 100.4 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

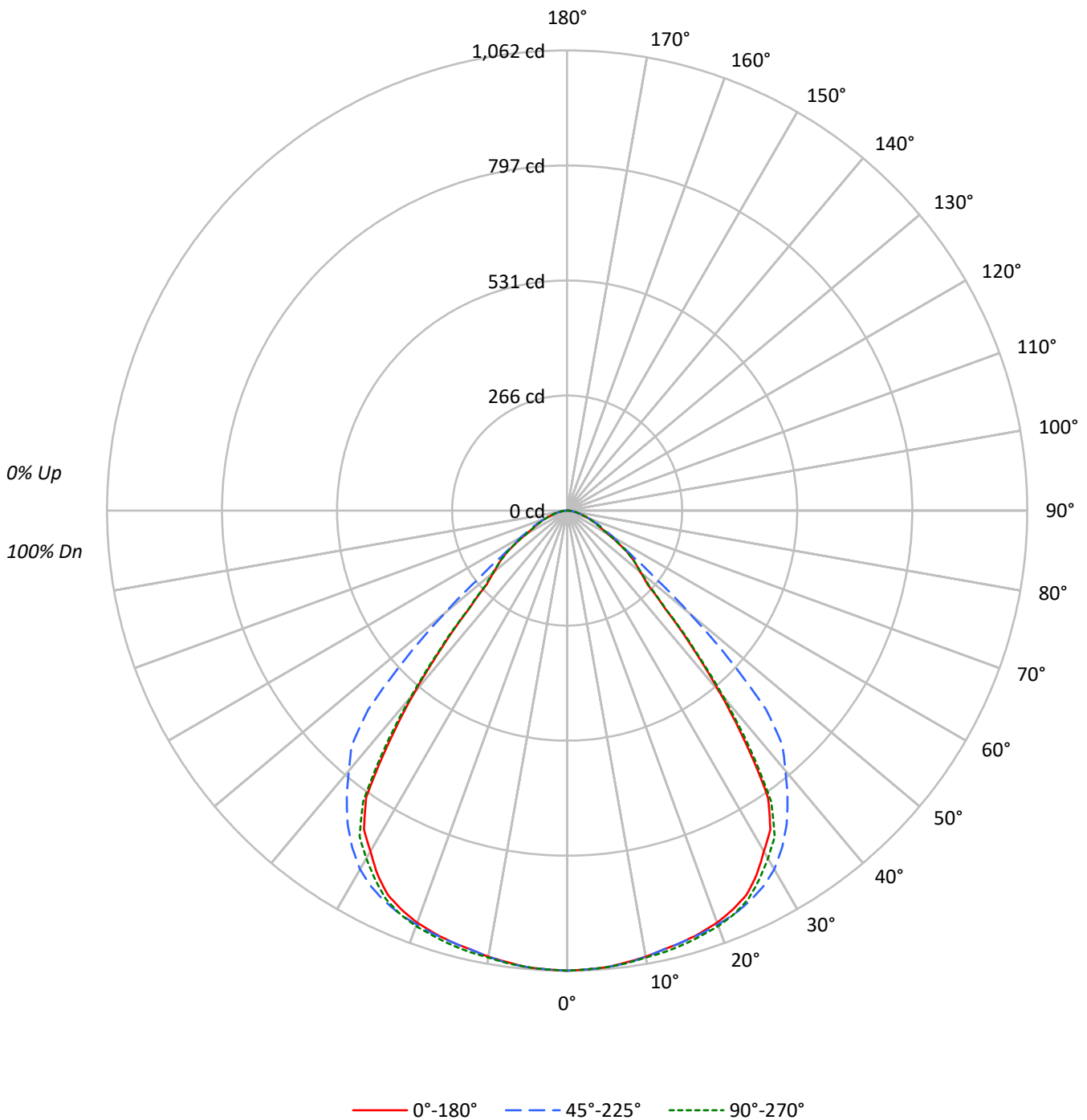
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	45721	45721	45721
5°	45718	45718	45718
10°	45700	45700	45792
15°	45943	45943	46224
20°	46369	46561	46754
25°	46500	47288	46994
30°	45147	47524	46077
35°	42491	46422	43148
40°	30834	44031	31537
45°	19363	39481	19741
50°	14756	24777	15031
55°	12949	13887	12949
60°	9481	10557	9481
65°	7834	8466	7834
70°	6546	6798	6546
75°	5523	5523	5523
80°	4637	4637	4637
85°	4100	4100	4100



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.6	5.0
10°-20°	292.1	14.6
20°-30°	454.6	22.6
30°-40°	519.5	25.9
40°-50°	347.5	17.3
50°-60°	166.3	8.3
60°-70°	81.1	4.0
70°-80°	36.5	1.8
80°-90°	9.3	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°	847.3	42.2
0°-40°	1366.7	68.1
0°-60°	1880.6	93.7
0°-90°	2007.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2007.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1062	1062	1062	1062	1062	
5°	1058	1058	1058	1058	1058	101
15°	1031	1031	1031	1035	1037	291
25°	979	985	995	993	989	448
35°	808	854	883	867	821	480
45°	318	409	648	416	324	264
55°	172	185	185	187	172	150
65°	77	79	83	79	77	77
75°	33	33	33	33	33	36
85°	8	8	8	8	8	9
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1061.9	1061.9	1061.9	1061.9	1061.9
2.5°	1059.8	1059.8	1059.8	1059.8	1059.8
5°	1057.8	1057.8	1057.8	1057.8	1057.8
7.5°	1051.5	1051.5	1053.6	1051.5	1053.6
10°	1045.3	1045.3	1045.3	1047.4	1047.4
12.5°	1037.0	1037.0	1037.0	1041.1	1043.2
15°	1030.7	1030.7	1030.7	1034.9	1037.0
17.5°	1022.4	1022.4	1024.5	1028.7	1028.7
20°	1012.0	1014.1	1016.2	1020.4	1020.4
22.5°	997.5	1001.6	1007.9	1010.0	1007.9
25°	978.8	985.0	995.4	993.3	989.2
27.5°	947.6	962.2	978.8	970.5	960.1
30°	908.1	931.0	955.9	939.3	926.8
32.5°	872.8	891.5	922.7	904.0	891.5
35°	808.4	854.1	883.2	866.6	820.9
37.5°	677.5	779.3	835.4	791.8	694.1
40°	548.6	656.7	783.4	665.0	561.1
42.5°	426.0	529.9	735.7	538.2	434.3
45°	318.0	409.4	648.4	415.6	324.2
47.5°	251.5	303.4	505.0	309.6	255.6
50°	220.3	241.1	369.9	245.2	224.4
52.5°	197.4	209.9	257.7	212.0	197.4
55°	172.5	185.0	185.0	187.0	172.5
57.5°	139.2	157.9	145.5	157.9	141.3
60°	110.1	124.7	122.6	124.7	110.1
62.5°	89.4	97.7	99.7	97.7	89.4
65°	76.9	79.0	83.1	79.0	76.9
67.5°	64.4	66.5	66.5	66.5	62.3
70°	52.0	54.0	54.0	54.0	52.0
72.5°	41.6	43.6	43.6	43.6	41.6
75°	33.2	33.2	33.2	33.2	33.2
77.5°	24.9	27.0	24.9	27.0	24.9
80°	18.7	18.7	18.7	18.7	18.7
82.5°	12.5	12.5	12.5	12.5	12.5
85°	8.3	8.3	8.3	8.3	8.3
87.5°	4.2	4.2	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)