

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: P252995

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P252995  
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  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM SPECULAR  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

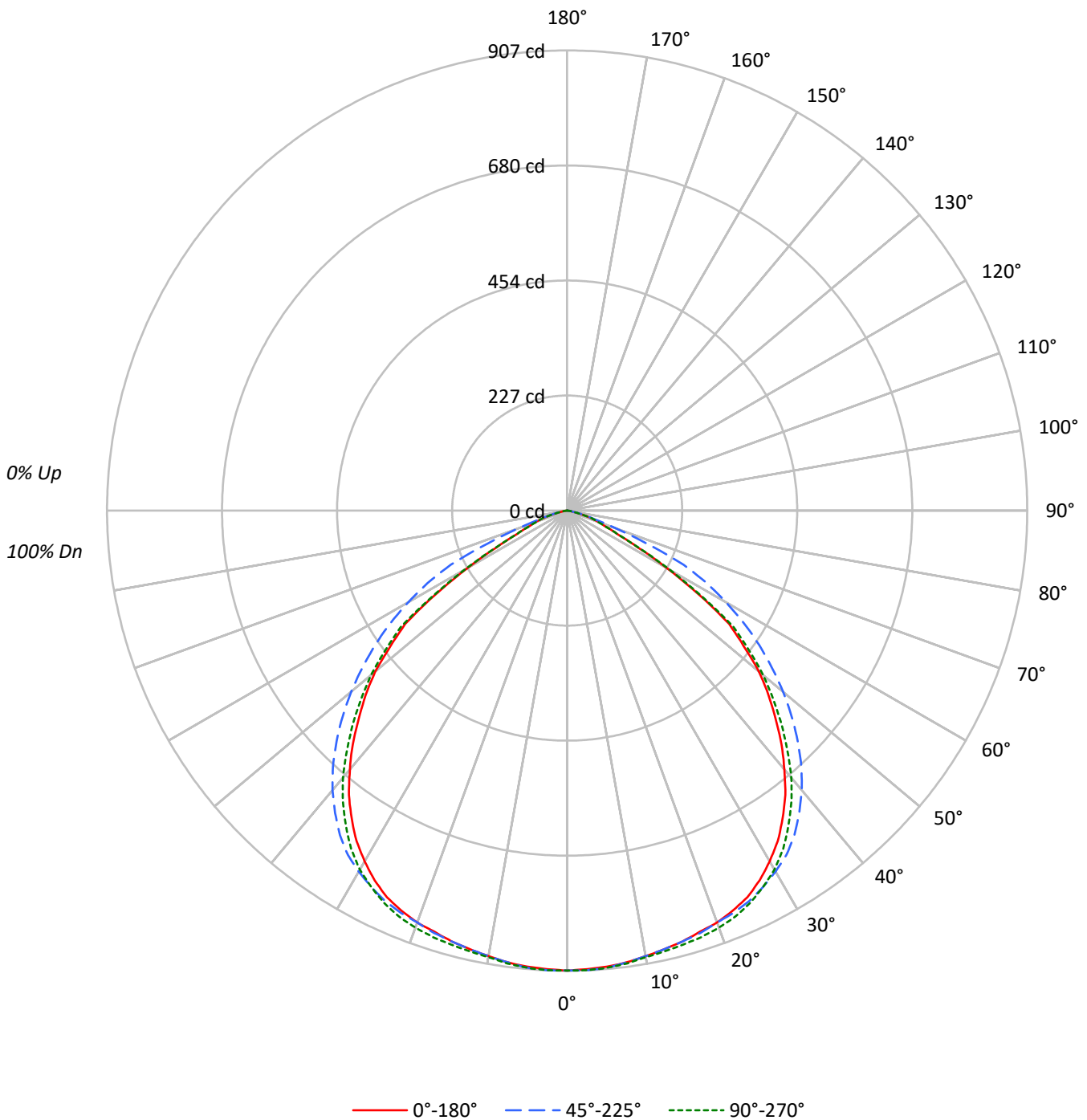
Lumens per Lamp: N/A  
Luminaire Lumens: 2261.4 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.32 / 1.41  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

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					88			
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76					76			
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67	65					65			
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57					57			
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44					44			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35					35			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28					28			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	39039	39039	39039
5°	39006	39097	39097
10°	38989	38989	39081
15°	39181	39181	39466
20°	39592	39592	40082
25°	39939	40343	40547
30°	39684	40847	40633
35°	38932	41056	39941
40°	37444	40434	38641
45°	35383	39140	36418
50°	33076	37209	33786
55°	29238	34673	30034
60°	19608	31155	20159
65°	11064	25806	11064
70°	8308	12589	8044
75°	4957	5673	5307
80°	2108	2628	2108
85°	1037	1037	1037



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.9	3.8
10°-20°	249.1	11.0
20°-30°	390.4	17.3
30°-40°	476.9	21.1
40°-50°	474.1	21.0
50°-60°	374.3	16.6
60°-70°	167.6	7.4
70°-80°	39.0	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°	725.4	32.1
0°-40°	1202.3	53.2
0°-60°	2050.7	90.7
0°-90°	2261.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2261.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	907	907	907	907	907	
5°	902	902	905	905	905	86
15°	879	877	879	881	885	249
25°	841	843	849	851	854	386
35°	741	756	781	770	760	462
45°	581	609	643	624	598	448
55°	390	419	462	428	400	333
65°	109	143	253	145	109	122
75°	30	36	34	36	32	34
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°	906.7	906.7	906.7	906.7	906.7
2.5°	904.6	906.7	906.7	906.7	906.7
5°	902.5	902.5	904.6	904.6	904.6
7.5°	898.2	898.2	898.2	900.3	900.3
10°	891.8	891.8	891.8	893.9	893.9
12.5°	885.4	885.4	885.4	887.6	889.7
15°	879.0	876.9	879.0	881.2	885.4
17.5°	870.5	872.7	872.7	876.9	881.2
20°	864.1	864.1	864.1	870.5	874.8
22.5°	853.5	853.5	857.8	862.0	866.3
25°	840.7	842.9	849.2	851.4	853.5
27.5°	821.6	828.0	836.5	838.6	836.5
30°	798.2	806.7	821.6	819.4	817.3
32.5°	772.6	783.3	804.5	798.2	791.8
35°	740.7	755.6	781.1	770.5	759.9
37.5°	706.6	725.8	751.3	740.7	725.8
40°	666.2	689.6	719.4	704.5	687.5
42.5°	625.8	651.3	683.2	664.1	642.8
45°	581.1	608.7	642.8	623.6	598.1
47.5°	538.5	566.2	600.2	576.8	551.3
50°	493.8	519.3	555.5	530.0	504.4
52.5°	438.5	472.5	508.7	481.0	451.2
55°	389.5	419.3	461.9	427.8	400.1
57.5°	306.5	366.1	412.9	372.5	315.0
60°	227.7	285.2	361.8	293.7	234.1
62.5°	157.5	210.7	310.8	212.8	159.6
65°	108.6	142.6	253.3	144.7	108.6
67.5°	80.9	95.8	170.3	95.8	80.9
70°	66.0	70.2	100.0	70.2	63.9
72.5°	49.0	55.3	55.3	55.3	51.1
75°	29.8	36.2	34.1	36.2	31.9
77.5°	12.8	17.0	21.3	19.2	12.8
80°	8.5	8.5	10.6	8.5	8.5
82.5°	6.4	6.4	6.4	6.4	6.4
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)