

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: P253008

Luminaire Tested: **PRS610D010-S6M12-64SWDH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253008  
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: PRS610D010-S6M12-64SWDH  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1035.0 lumens  
Efficiency: N/A  
Efficacy: 103.5 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

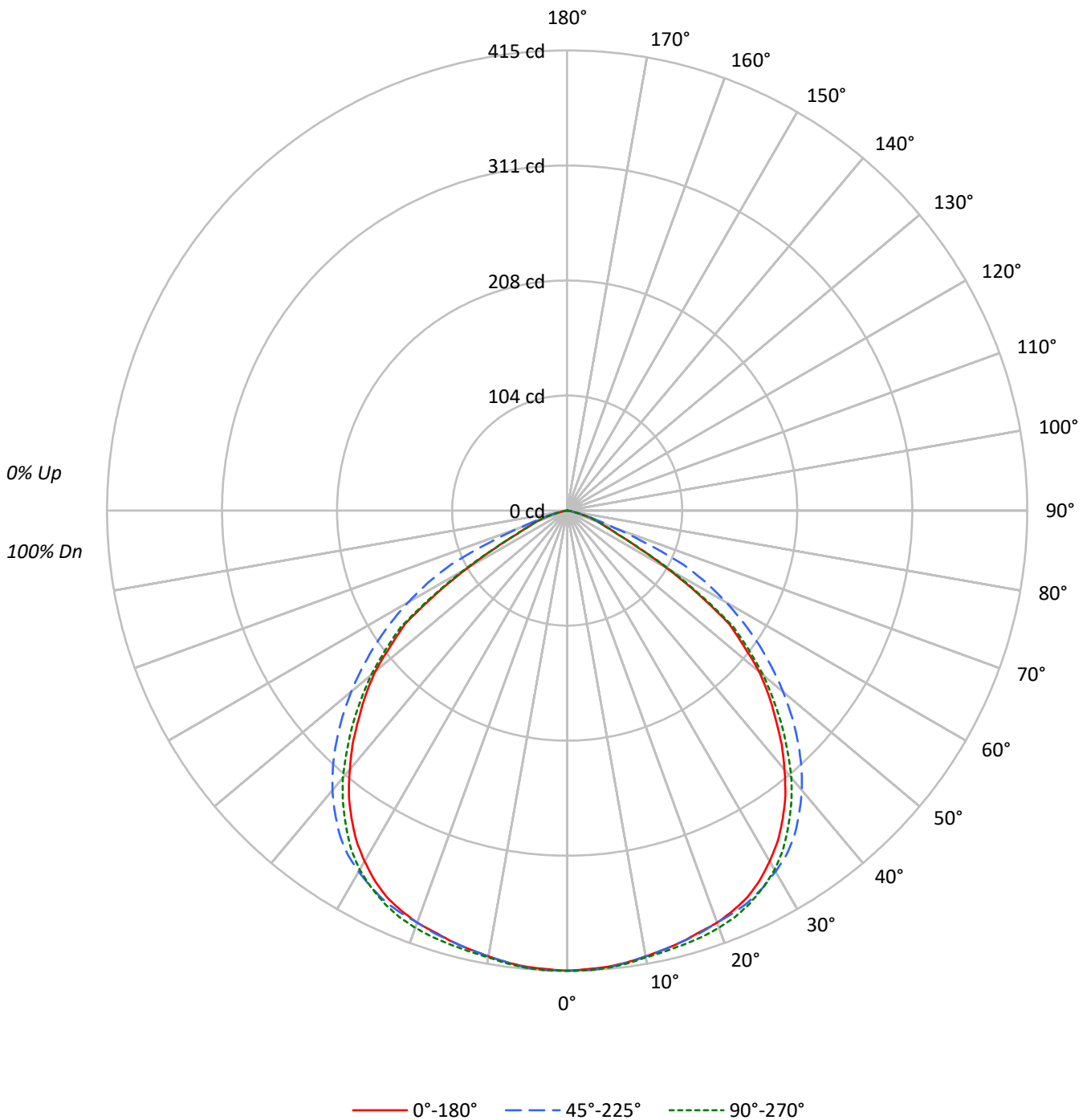
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	17868	17868	17868
5°	17854	17893	17893
10°	17846	17846	17890
15°	17932	17932	18066
20°	18121	18121	18346
25°	18281	18466	18556
30°	18161	18693	18599
35°	17818	18791	18281
40°	17137	18508	17688
45°	16197	17914	16666
50°	15138	17034	15466
55°	13384	15869	13744
60°	8973	14260	9231
65°	5063	11808	5063
70°	3802	5766	3676
75°	2262	2595	2429
80°	967	1215	967
85°	494	494	494



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.3	3.8
10°-20°	114.0	11.0
20°-30°	178.7	17.3
30°-40°	218.3	21.1
40°-50°	217.0	21.0
50°-60°	171.3	16.6
60°-70°	76.7	7.4
70°-80°	17.9	1.7
80°-90°	1.9	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°	332.0	32.1
0°-40°	550.3	53.2
0°-60°	938.6	90.7
0°-90°	1035.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1035.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	415	415	415	415	415	
5°	413	413	414	414	414	39
15°	402	401	402	403	405	114
25°	385	386	389	390	391	177
35°	339	346	358	353	348	211
45°	266	279	294	285	274	205
55°	178	192	211	196	183	152
65°	50	65	116	66	50	56
75°	14	17	16	17	15	15
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°	415.0	415.0	415.0	415.0	415.0
2.5°	414.0	415.0	415.0	415.0	415.0
5°	413.1	413.1	414.0	414.0	414.0
7.5°	411.1	411.1	411.1	412.1	412.1
10°	408.2	408.2	408.2	409.2	409.2
12.5°	405.3	405.3	405.3	406.2	407.2
15°	402.3	401.4	402.3	403.3	405.3
17.5°	398.4	399.4	399.4	401.4	403.3
20°	395.5	395.5	395.5	398.4	400.4
22.5°	390.6	390.6	392.6	394.5	396.5
25°	384.8	385.8	388.7	389.7	390.6
27.5°	376.0	379.0	382.9	383.8	382.9
30°	365.3	369.2	376.0	375.1	374.1
32.5°	353.6	358.5	368.2	365.3	362.4
35°	339.0	345.8	357.5	352.7	347.8
37.5°	323.4	332.2	343.9	339.0	332.2
40°	304.9	315.6	329.3	322.5	314.7
42.5°	286.4	298.1	312.7	303.9	294.2
45°	266.0	278.6	294.2	285.4	273.7
47.5°	246.5	259.1	274.7	264.0	252.3
50°	226.0	237.7	254.3	242.6	230.9
52.5°	200.7	216.3	232.8	220.2	206.5
55°	178.3	191.9	211.4	195.8	183.1
57.5°	140.3	167.6	189.0	170.5	144.2
60°	104.2	130.5	165.6	134.4	107.2
62.5°	72.1	96.4	142.2	97.4	73.1
65°	49.7	65.3	115.9	66.2	49.7
67.5°	37.0	43.8	77.9	43.8	37.0
70°	30.2	32.1	45.8	32.1	29.2
72.5°	22.4	25.3	25.3	25.3	23.4
75°	13.6	16.6	15.6	16.6	14.6
77.5°	5.8	7.8	9.7	8.8	5.8
80°	3.9	3.9	4.9	3.9	3.9
82.5°	2.9	2.9	2.9	2.9	2.9
85°	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)