

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: P238243

Luminaire Tested: **PRS610D010-S6M12-61SMDH-4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238243  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-20)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS610D010-S6M12-61SMDH-4000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM 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: 1038.1 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.95  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

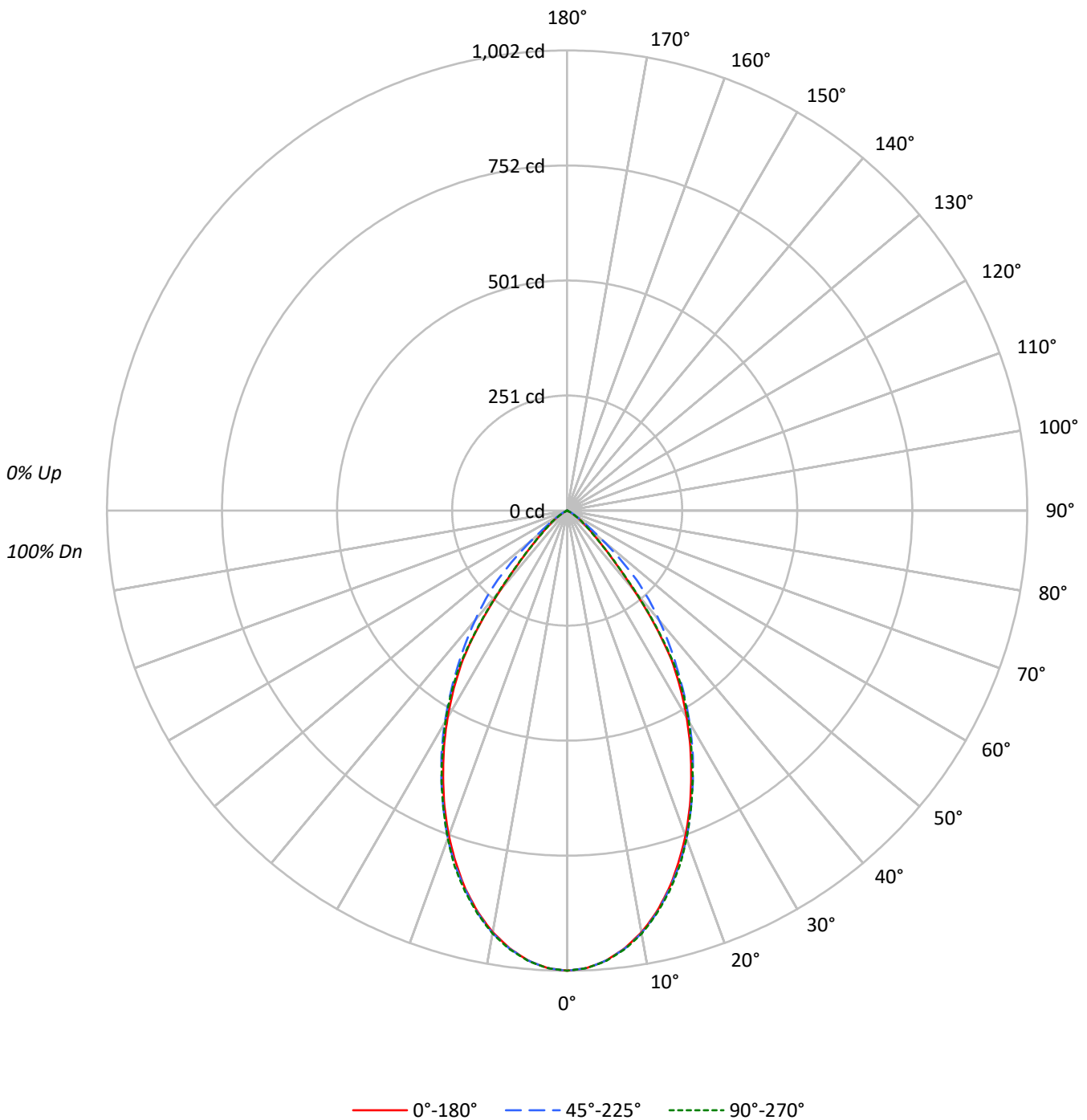
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	97	96	94	93		
1	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	91	89	87	85	85		
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	82	80	78	78	78		
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78	78	75	73	72	72	72		
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72	72	69	68	68	66	66		
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	63	63	61	61	61		
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61	61	58	58	57	57	57		
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57	57	54	54	52	52	52		
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52	52	50	50	49	49	49		
9	72	62	55	51	71	61	55	51	60	55	51	59	54	50	58	54	50	49	49	47	47	46	46	46		
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46	46	44	44	43	43	43		

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

	0°	45°	90°
0°	43137	43137	43137
5°	42485	42485	42529
10°	40760	40847	40891
15°	38058	38147	38276
20°	34520	34836	34836
25°	30362	30784	30737
30°	25892	26484	26340
35°	20793	21839	21208
40°	12680	17485	13073
45°	6716	13012	6777
50°	3858	6725	3858
55°	2387	2913	2387
60°	853	1369	853
65°	204	509	204
70°	126	126	126
75°	166	166	166
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.3	8.9
10°-20°	239.1	23.0
20°-30°	295.1	28.4
30°-40°	252.0	24.3
40°-50°	120.6	11.6
50°-60°	33.9	3.3
60°-70°	4.4	0.4
70°-80°	0.7	0.1
80°-90°	0.0	0.0
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°	626.5	60.3
0°-40°	878.5	84.6
0°-60°	1033.0	99.5
0°-90°	1038.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1038.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	983	984	983	984	984	92
15°	854	855	856	859	859	238
25°	639	642	648	648	647	292
35°	396	410	416	416	404	238
45°	110	137	214	138	111	93
55°	32	37	39	36	32	29
65°	2	2	5	2	2	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1001.9	1001.9	1001.9	1001.9	1001.9
2.5°	996.9	996.9	996.9	996.9	996.9
5°	983.0	984.0	983.0	984.0	984.0
7.5°	961.1	962.1	962.1	963.1	963.1
10°	932.3	933.3	934.3	934.3	935.3
12.5°	896.5	896.5	898.5	899.5	899.5
15°	853.8	854.8	855.8	858.7	858.7
17.5°	805.1	807.1	810.0	811.0	813.0
20°	753.4	753.4	760.3	759.3	760.3
22.5°	697.7	700.7	703.7	705.7	703.7
25°	639.1	642.1	648.0	648.0	647.0
27.5°	580.4	583.4	591.4	588.4	586.4
30°	520.8	523.8	532.7	527.8	529.8
32.5°	459.2	468.1	473.1	473.1	468.1
35°	395.6	410.5	415.5	415.5	403.5
37.5°	313.1	348.9	362.8	351.8	317.1
40°	225.6	272.3	311.1	277.3	232.6
42.5°	158.0	197.8	263.4	200.8	160.0
45°	110.3	137.2	213.7	138.2	111.3
47.5°	77.5	95.4	155.0	95.4	77.5
50°	57.6	67.6	100.4	66.6	57.6
52.5°	43.7	49.7	61.6	48.7	43.7
55°	31.8	36.8	38.8	35.8	31.8
57.5°	19.9	24.8	24.8	24.8	18.9
60°	9.9	13.9	15.9	13.9	9.9
62.5°	3.0	6.0	9.9	6.0	3.0
65°	2.0	2.0	5.0	2.0	2.0
67.5°	2.0	2.0	2.0	2.0	2.0
70°	1.0	1.0	1.0	1.0	1.0
72.5°	1.0	1.0	1.0	1.0	1.0
75°	1.0	1.0	1.0	1.0	1.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)