

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: P238279

Luminaire Tested: **PRS615D010-S6M12-61SMDC-3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238279  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-23)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS615D010-S6M12-61SMDC-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM SPECULAR  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1360.0 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.87 / 0.9  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

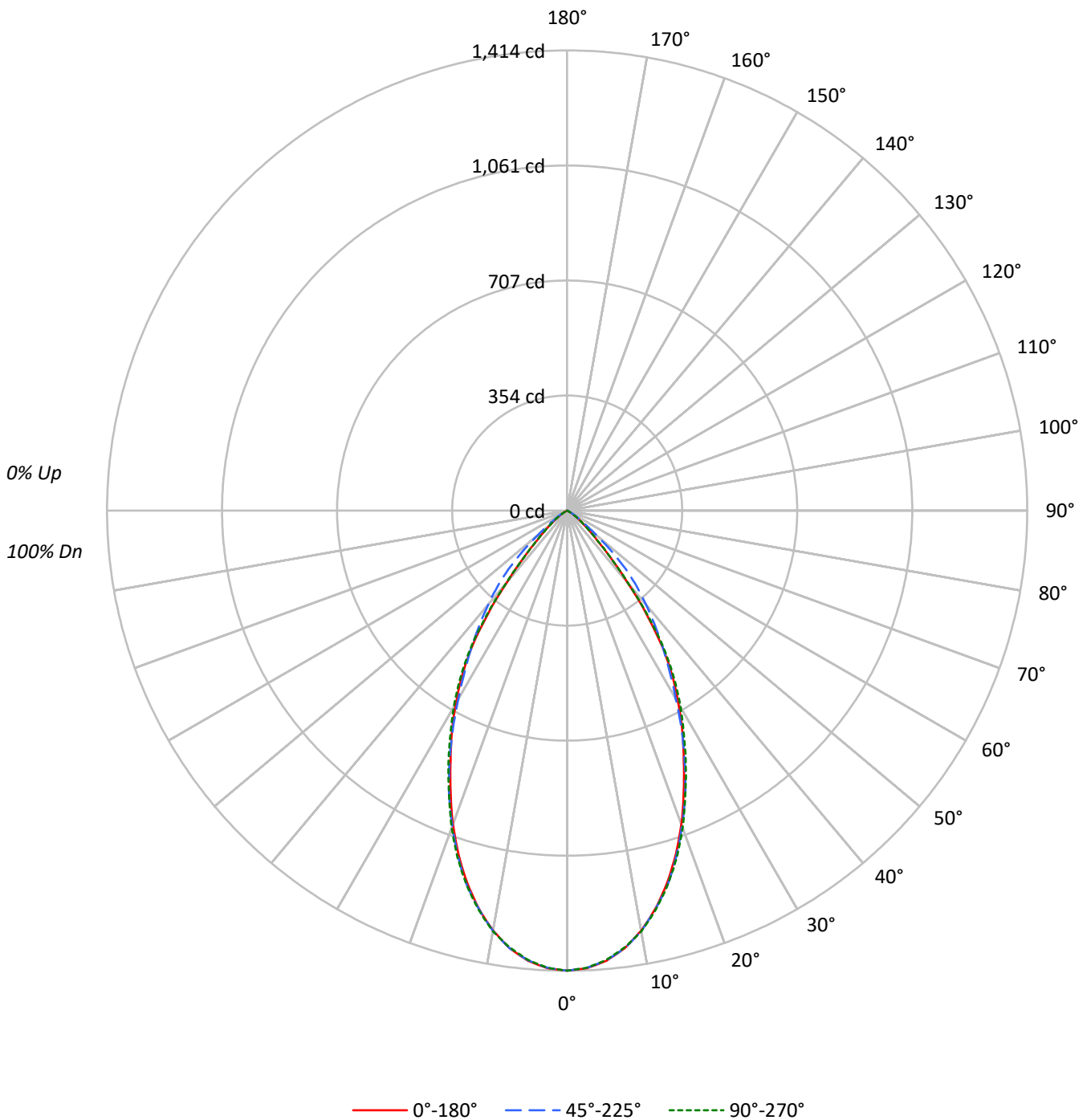
Input Watts (W): 12.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100	100	100		
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93	93	93	93		
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86	86	86	86	86	86	86		
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	79	79	79	79	79		
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	81	77	74	73	73	73	73	73	73	73		
5	91	82	76	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67	67	67	67	67	67	67		
6	86	76	70	65	84	75	69	65	74	69	65	72	68	64	71	67	64	62	62	62	62	62	62	62		
7	81	71	65	60	80	71	65	60	69	64	60	68	63	60	67	63	59	58	58	58	58	58	58	58		
8	77	67	60	56	76	66	60	56	65	60	56	64	59	55	63	59	55	54	54	54	54	54	54	54		
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50	50	50	50	50	50	50		
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47	47	47	47	47	47	47		

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

	0°	45°	90°
0°	60868	60868	60868
5°	59998	59942	59886
10°	57291	57347	57404
15°	52843	53128	53128
20°	47015	47248	47542
25°	40271	40632	40998
30°	33966	33206	34667
35°	26733	26869	27337
40°	16266	21133	16552
45°	8226	15521	8385
50°	4528	7857	4528
55°	2485	3250	2582
60°	654	1429	654
65°	0	520	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.0	9.6
10°-20°	331.4	24.4
20°-30°	391.3	28.8
30°-40°	319.4	23.5
40°-50°	146.6	10.8
50°-60°	38.1	2.8
60°-70°	3.2	0.2
70°-80°	0.0	0.0
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°	852.7	62.7
0°-40°	1172.1	86.2
0°-60°	1356.8	99.8
0°-90°	1360.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1360.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1414	1414	1414	1414	1414	
5°	1388	1388	1387	1387	1386	130
15°	1186	1188	1192	1193	1192	330
25°	848	846	855	860	863	389
35°	509	523	511	530	520	308
45°	135	167	255	168	138	116
55°	33	41	43	41	34	31
65°	0	0	5	0	0	1
75°	0	0	0	0	0	0
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°	1413.7	1413.7	1413.7	1413.7	1413.7
2.5°	1407.3	1407.3	1406.0	1406.0	1406.0
5°	1388.2	1388.2	1386.9	1386.9	1385.6
7.5°	1356.3	1356.3	1356.3	1355.0	1353.7
10°	1310.4	1310.4	1311.7	1311.7	1313.0
12.5°	1253.0	1254.3	1254.3	1256.9	1256.9
15°	1185.5	1188.0	1191.9	1193.1	1191.9
17.5°	1109.0	1111.5	1115.4	1120.5	1119.2
20°	1026.1	1027.4	1031.2	1038.9	1037.6
22.5°	935.6	938.2	948.4	950.9	948.4
25°	847.7	846.4	855.3	860.4	863.0
27.5°	767.4	761.0	762.3	769.9	777.6
30°	683.2	680.7	667.9	688.3	697.3
32.5°	600.4	601.7	585.1	606.8	611.9
35°	508.6	522.6	511.2	530.3	520.1
37.5°	399.0	437.2	441.0	443.6	409.2
40°	289.4	339.1	376.0	341.6	294.5
42.5°	201.4	242.2	317.4	247.3	200.1
45°	135.1	167.0	254.9	168.3	137.7
47.5°	94.3	112.2	184.8	113.4	94.3
50°	67.6	77.8	117.3	79.0	67.6
52.5°	49.7	56.1	71.4	56.1	49.7
55°	33.1	40.8	43.3	40.8	34.4
57.5°	20.4	26.8	28.0	26.8	19.1
60°	7.6	14.0	16.6	14.0	7.6
62.5°	1.3	3.8	10.2	5.1	1.3
65°	0.0	0.0	5.1	0.0	0.0
67.5°	0.0	0.0	1.3	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
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)