

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: P238278

Luminaire Tested: **PRS610D010-S6M12-61SMDC-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238278
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: PRS610D010-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: 1021.5 lumens
Efficiency: N/A
Efficacy: 102.1 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

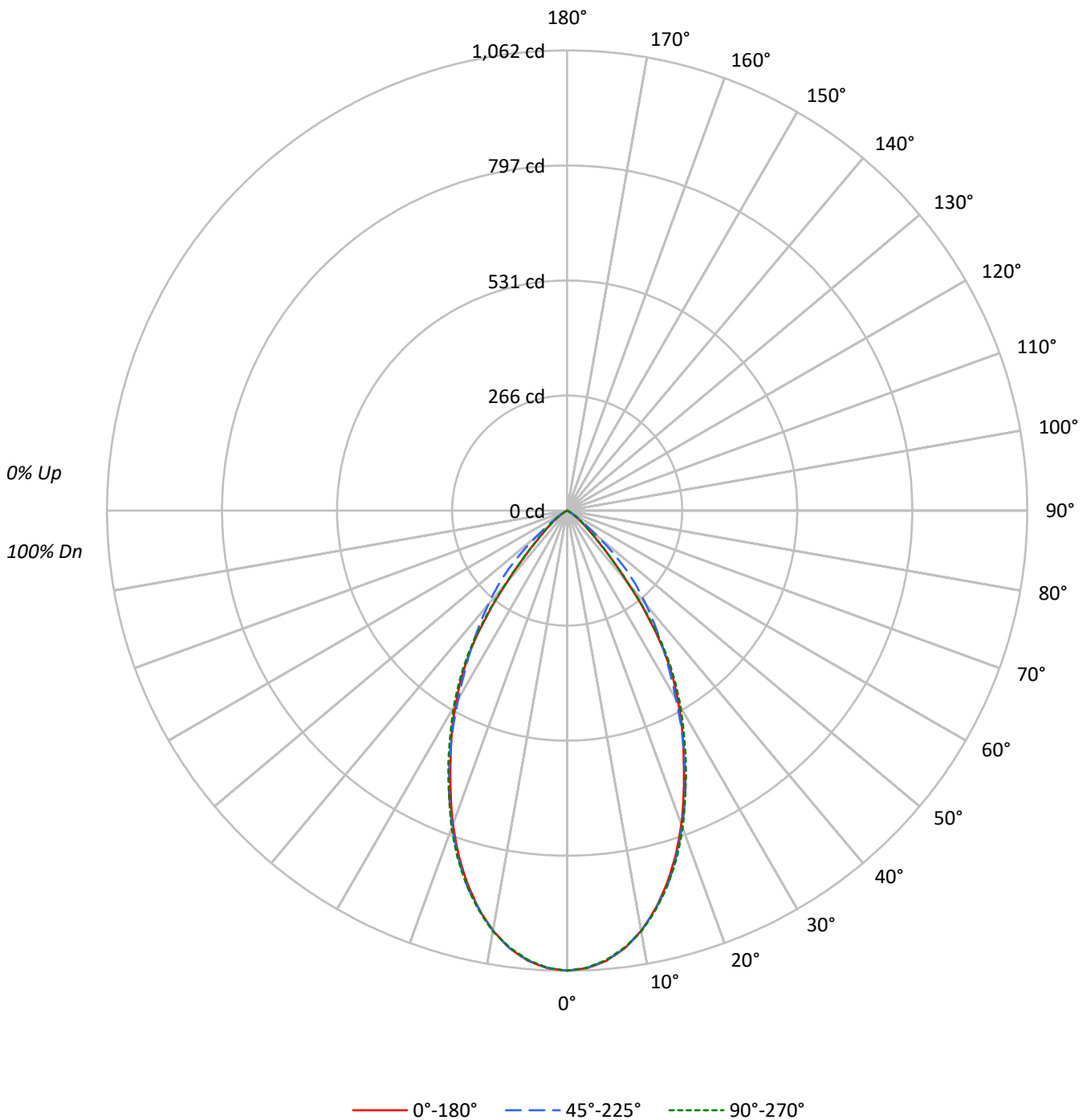
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	81	77	74	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67
6	86	76	70	65	84	75	69	65	74	69	65	72	68	64	71	67	64	62
7	81	71	65	60	80	71	65	60	69	64	60	68	63	60	67	63	59	58
8	77	67	60	56	76	66	60	56	65	60	56	64	59	55	63	59	55	54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	45712	45712	45712
5°	45061	45018	44979
10°	43029	43073	43112
15°	39689	39903	39903
20°	35313	35487	35707
25°	30247	30518	30794
30°	25514	24943	26036
35°	20078	20178	20530
40°	12213	15872	12433
45°	6180	11660	6296
50°	3396	5901	3396
55°	1869	2447	1937
60°	491	1068	491
65°	0	387	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°	97.7	9.6
10°-20°	248.9	24.4
20°-30°	293.9	28.8
30°-40°	239.9	23.5
40°-50°	110.1	10.8
50°-60°	28.6	2.8
60°-70°	2.4	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°	640.4	62.7
0°-40°	880.3	86.2
0°-60°	1019.0	99.8
0°-90°	1021.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1021.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1062	1062	1062	1062	1062	
5°	1043	1043	1042	1042	1041	98
15°	890	892	895	896	895	248
25°	637	636	642	646	648	293
35°	382	392	384	398	391	232
45°	102	125	192	126	103	87
55°	25	31	33	31	26	23
65°	0	0	4	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°	1061.7	1061.7	1061.7	1061.7	1061.7
2.5°	1057.0	1057.0	1056.0	1056.0	1056.0
5°	1042.6	1042.6	1041.6	1041.6	1040.7
7.5°	1018.7	1018.7	1018.7	1017.7	1016.8
10°	984.2	984.2	985.2	985.2	986.1
12.5°	941.1	942.1	942.1	944.0	944.0
15°	890.4	892.3	895.2	896.1	895.2
17.5°	832.9	834.8	837.7	841.5	840.6
20°	770.7	771.7	774.5	780.3	779.3
22.5°	702.7	704.6	712.3	714.2	712.3
25°	636.7	635.7	642.4	646.2	648.2
27.5°	576.4	571.6	572.5	578.3	584.0
30°	513.2	511.2	501.7	517.0	523.7
32.5°	450.9	451.9	439.4	455.7	459.5
35°	382.0	392.5	383.9	398.3	390.6
37.5°	299.7	328.4	331.3	333.2	307.3
40°	217.3	254.7	282.4	256.6	221.2
42.5°	151.3	181.9	238.4	185.7	150.3
45°	101.5	125.4	191.5	126.4	103.4
47.5°	70.8	84.3	138.8	85.2	70.8
50°	50.7	58.4	88.1	59.4	50.7
52.5°	37.3	42.1	53.6	42.1	37.3
55°	24.9	30.6	32.6	30.6	25.8
57.5°	15.3	20.1	21.1	20.1	14.4
60°	5.7	10.5	12.4	10.5	5.7
62.5°	1.0	2.9	7.7	3.8	1.0
65°	0.0	0.0	3.8	0.0	0.0
67.5°	0.0	0.0	1.0	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)