

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: P238290

Luminaire Tested: **PRS620D010-S6M12-61SMDC-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238290
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: PRS620D010-S6M12-61SMDC-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2303.0 lumens
Efficiency: N/A
Efficacy: 115.1 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

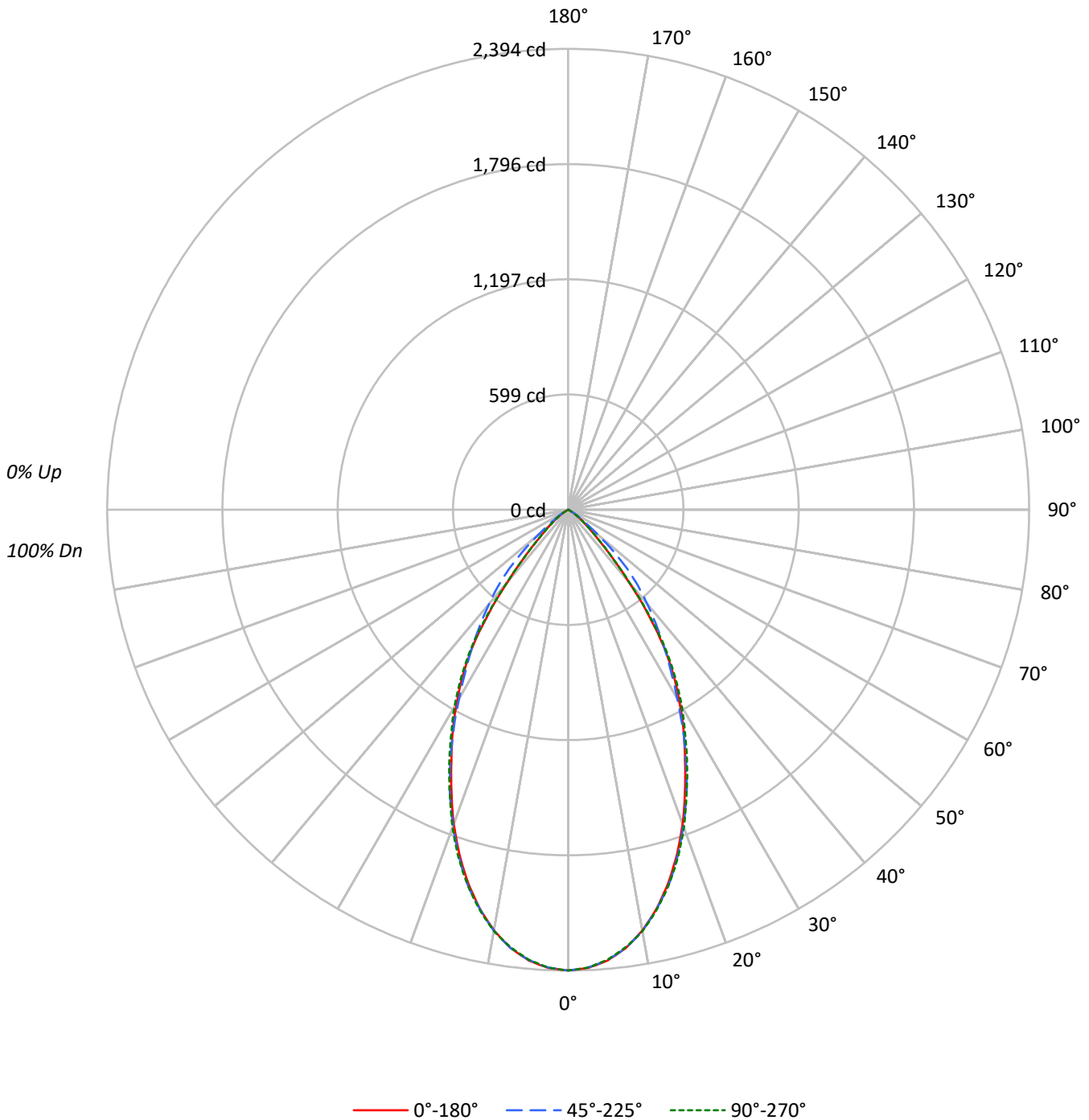
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238290

CATALOG NUMBER: PRS620D010-S6M12-61SMDC-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P238290

CATALOG NUMBER: PRS620D010-S6M12-61SMDC-4000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	103067	103067	103067
5°	101593	101498	101407
10°	97010	97106	97202
15°	89479	89960	89960
20°	79615	80009	80504
25°	68191	68809	69421
30°	57522	56234	58700
35°	45266	45497	46291
40°	27541	35791	28024
45°	13932	26286	14193
50°	7663	13303	7663
55°	4211	5510	4376
60°	1119	2420	1119
65°	0	876	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P238290

CATALOG NUMBER: PRS620D010-S6M12-61SMDC-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.2	9.6
10°-20°	561.1	24.4
20°-30°	662.6	28.8
30°-40°	540.9	23.5
40°-50°	248.3	10.8
50°-60°	64.5	2.8
60°-70°	5.4	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°	1443.8	62.7
0°-40°	1984.7	86.2
0°-60°	2297.5	99.8
0°-90°	2303.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2303.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2394	2394	2394	2394	2394	
5°	2351	2351	2348	2348	2346	220
15°	2007	2012	2018	2020	2018	559
25°	1435	1433	1448	1457	1461	659
35°	861	885	866	898	881	522
45°	229	283	432	285	233	196
55°	56	69	73	69	58	53
65°	0	0	9	0	0	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P238290

CATALOG NUMBER: PRS620D010-S6M12-61SMDC-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2393.8	2393.8	2393.8	2393.8	2393.8
2.5°	2383.0	2383.0	2380.8	2380.8	2380.8
5°	2350.6	2350.6	2348.4	2348.4	2346.3
7.5°	2296.6	2296.6	2296.6	2294.5	2292.3
10°	2218.9	2218.9	2221.1	2221.1	2223.3
12.5°	2121.8	2124.0	2124.0	2128.3	2128.3
15°	2007.4	2011.7	2018.2	2020.4	2018.2
17.5°	1877.9	1882.2	1888.7	1897.3	1895.2
20°	1737.6	1739.8	1746.2	1759.2	1757.0
22.5°	1584.3	1588.7	1605.9	1610.2	1605.9
25°	1435.4	1433.2	1448.4	1457.0	1461.3
27.5°	1299.4	1288.6	1290.8	1303.7	1316.7
30°	1157.0	1152.6	1131.1	1165.6	1180.7
32.5°	1016.7	1018.8	990.8	1027.4	1036.1
35°	861.2	885.0	865.6	897.9	880.7
37.5°	675.6	740.4	746.8	751.2	692.9
40°	490.0	574.2	636.8	578.5	498.6
42.5°	341.0	410.1	537.5	418.7	338.9
45°	228.8	282.8	431.7	284.9	233.1
47.5°	159.7	189.9	313.0	192.1	159.7
50°	114.4	131.7	198.6	133.8	114.4
52.5°	84.2	95.0	120.9	95.0	84.2
55°	56.1	69.1	73.4	69.1	58.3
57.5°	34.5	45.3	47.5	45.3	32.4
60°	13.0	23.7	28.1	23.7	13.0
62.5°	2.2	6.5	17.3	8.6	2.2
65°	0.0	0.0	8.6	0.0	0.0
67.5°	0.0	0.0	2.2	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)