

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: P238190

Luminaire Tested: **PRS620D010-S6M12-61SMDMW-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-17)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS620D010-S6M12-61SMDMW-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2215.2 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.97 / 1.03
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

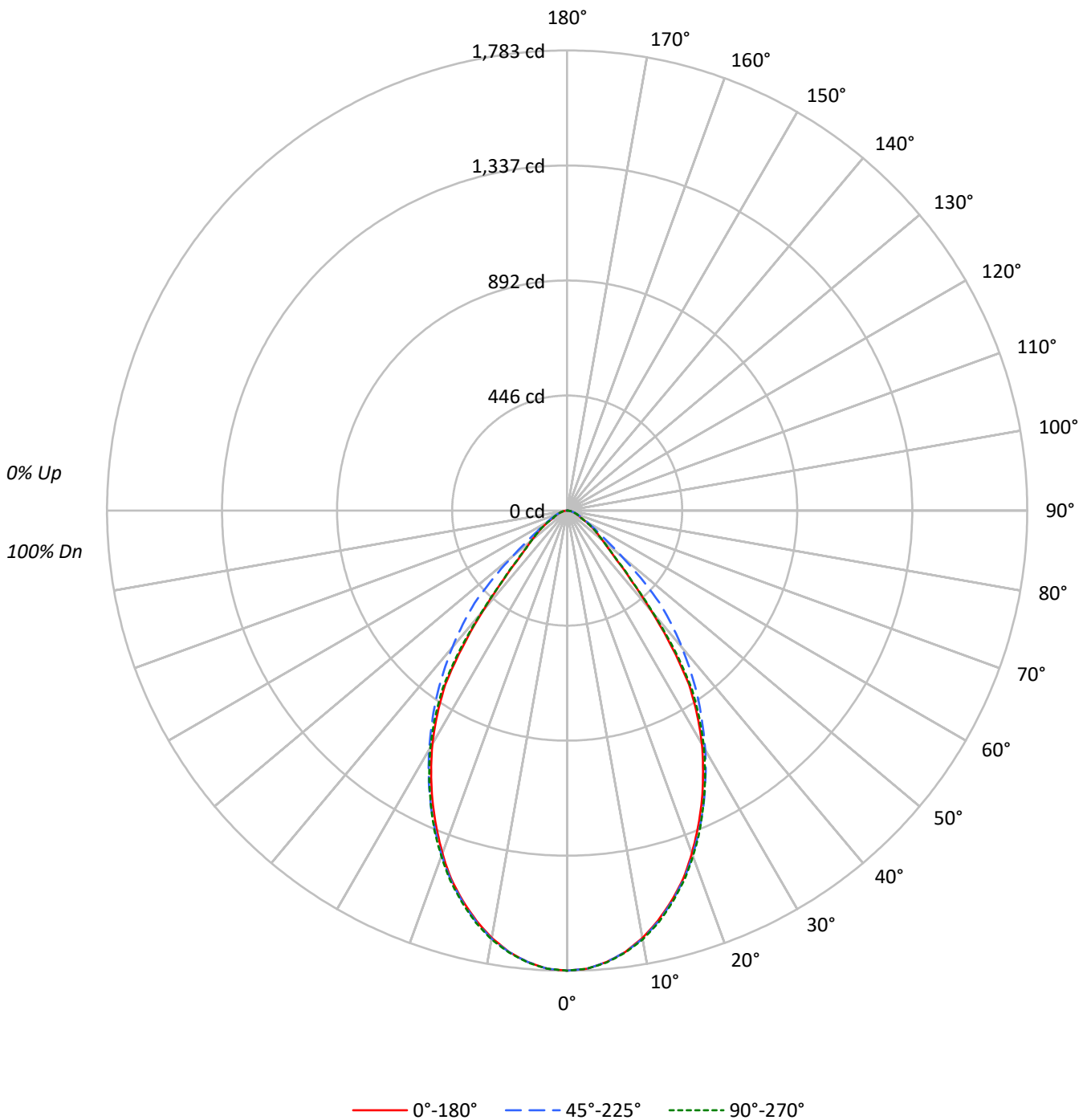
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	101	99		99	97	96		95	94	93	91
2	105	100	95	91	103	98	93	90	94	91	88		91	88	86		89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	79		84	81	77		82	79	76	74
4	93	84	77	72	91	83	76	72	80	75	71		78	74	70		76	72	69	67
5	87	77	70	65	85	76	70	65	74	69	64		73	68	64		71	67	63	61
6	82	71	64	59	80	71	64	59	69	63	59		67	62	58		66	61	58	56
7	77	66	59	54	76	66	59	54	64	58	54		63	58	54		62	57	53	52
8	73	62	55	50	71	61	55	50	60	54	50		59	53	49		58	53	49	48
9	69	58	51	46	67	57	51	46	56	50	46		55	50	46		54	49	46	44
10	65	54	47	43	64	54	47	43	53	47	43		52	46	43		51	46	43	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	76760	76760	76760
5°	75886	75886	75977
10°	73493	73677	73769
15°	69746	69928	70116
20°	64742	65122	65310
25°	58737	59526	59426
30°	51964	53202	52684
35°	43247	46417	44236
40°	28496	38888	29081
45°	16702	30871	17207
50°	11970	18373	11970
55°	9361	10922	9518
60°	6803	7871	6803
65°	5501	6143	5501
70°	4708	4973	4973
75°	4142	4142	4142
80°	3595	3595	3595
85°	3063	3063	3063



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.4	7.5
10°-20°	439.2	19.8
20°-30°	571.2	25.8
30°-40°	527.5	23.8
40°-50°	292.0	13.2
50°-60°	126.3	5.7
60°-70°	58.1	2.6
70°-80°	28.0	1.3
80°-90°	7.5	0.3
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°	1175.8	53.1
0°-40°	1703.3	76.9
0°-60°	2121.7	95.8
0°-90°	2215.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2215.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1783	1783	1783	1783	1783	
5°	1756	1758	1756	1758	1758	165
15°	1565	1567	1569	1573	1573	438
25°	1236	1240	1253	1255	1251	566
35°	823	854	883	864	842	496
45°	274	337	507	345	283	229
55°	125	139	146	139	127	112
65°	54	56	60	56	54	54
75°	25	27	25	27	25	27
85°	6	6	6	6	6	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1782.8	1782.8	1782.8	1782.8	1782.8
2.5°	1776.6	1776.6	1776.6	1776.6	1776.6
5°	1755.8	1757.9	1755.8	1757.9	1757.9
7.5°	1724.7	1726.7	1724.7	1726.7	1726.7
10°	1681.0	1681.0	1685.2	1685.2	1687.3
12.5°	1627.0	1629.1	1631.2	1633.2	1635.3
15°	1564.7	1566.7	1568.8	1573.0	1573.0
17.5°	1496.1	1494.0	1500.2	1500.2	1504.4
20°	1413.0	1417.1	1421.3	1423.4	1425.4
22.5°	1325.7	1329.9	1338.2	1340.2	1342.3
25°	1236.4	1240.5	1253.0	1255.1	1250.9
27.5°	1140.8	1151.2	1161.5	1159.5	1157.4
30°	1045.2	1051.4	1070.1	1063.9	1059.7
32.5°	937.1	957.9	974.5	966.2	953.8
35°	822.8	854.0	883.1	864.4	841.6
37.5°	667.0	748.0	785.4	756.4	687.8
40°	507.0	602.6	691.9	613.0	517.4
42.5°	369.9	457.1	598.4	467.5	376.1
45°	274.3	336.6	507.0	344.9	282.6
47.5°	214.0	257.7	386.5	257.7	216.1
50°	178.7	201.6	274.3	203.6	178.7
52.5°	149.6	166.2	195.3	166.2	149.6
55°	124.7	139.2	145.5	139.2	126.8
57.5°	99.7	114.3	112.2	114.3	101.8
60°	79.0	89.3	91.4	89.3	79.0
62.5°	60.3	68.6	74.8	68.6	60.3
65°	54.0	56.1	60.3	56.1	54.0
67.5°	45.7	47.8	47.8	47.8	45.7
70°	37.4	39.5	39.5	39.5	39.5
72.5°	31.2	33.2	33.2	33.2	31.2
75°	24.9	27.0	24.9	27.0	24.9
77.5°	18.7	20.8	20.8	20.8	20.8
80°	14.5	14.5	14.5	14.5	14.5
82.5°	10.4	10.4	10.4	10.4	10.4
85°	6.2	6.2	6.2	6.2	6.2
87.5°	4.2	4.2	2.1	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)