

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: P238175

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-16)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS620D010-S6M12-61SNDMW-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW 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: 2292.1 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.87
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

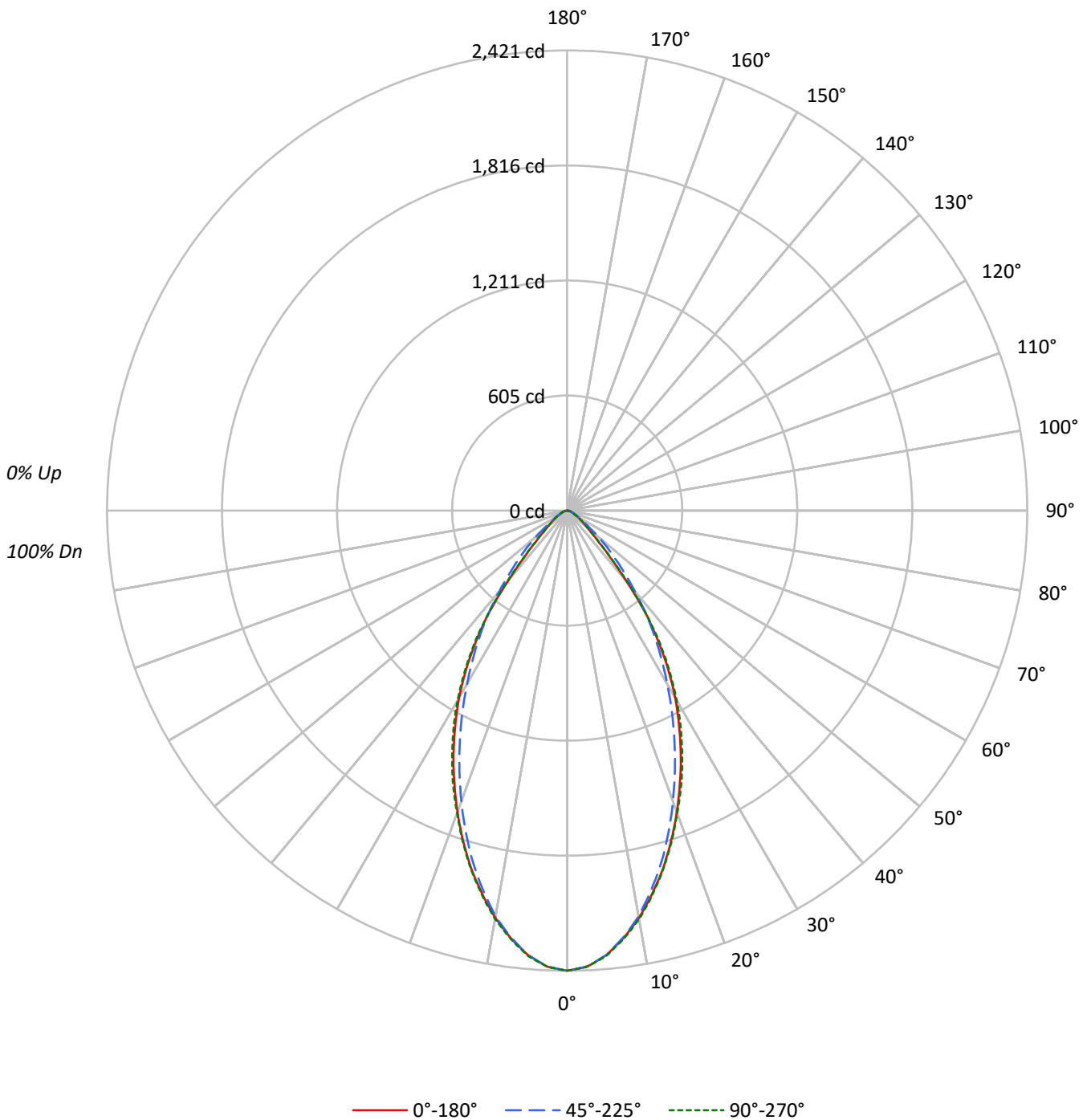
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92
2	106	101	96	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60
7	80	70	63	59	78	69	63	58	68	62	58	66	61	58	65	61	57	56
8	76	65	59	54	74	65	58	54	64	58	54	62	57	54	61	57	53	52
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49
10	68	58	51	47	67	57	51	47	56	51	47	56	51	47	55	50	47	45

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	104233	104233	104233
5°	101489	101489	101667
10°	95121	94758	95392
15°	86885	85400	87067
20°	77315	74552	77599
25°	67227	63478	68020
30°	56513	52381	57338
35°	43689	41944	44672
40°	27333	31301	27911
45°	14425	21762	14681
50°	9049	14200	9183
55°	6711	8265	6861
60°	5012	5726	5012
65°	3810	4442	3810
70°	3399	3663	3399
75°	3111	3111	3111
80°	2579	2579	2579
85°	2075	2075	2075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.5	9.5
10°-20°	538.4	23.5
20°-30°	630.5	27.5
30°-40°	503.7	22.0
40°-50°	239.5	10.4
50°-60°	94.1	4.1
60°-70°	41.9	1.8
70°-80°	20.0	0.9
80°-90°	5.5	0.2
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°	1387.5	60.5
0°-40°	1891.2	82.5
0°-60°	2224.8	97.1
0°-90°	2292.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2292.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2421	2421	2421	2421	2421	
5°	2348	2348	2348	2350	2352	219
15°	1949	1928	1916	1933	1953	543
25°	1415	1374	1336	1382	1432	647
35°	831	800	798	810	850	511
45°	237	285	357	289	241	201
55°	89	100	110	102	91	83
65°	37	40	44	40	37	39
75°	19	19	19	19	19	20
85°	4	4	4	4	4	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2420.9	2420.9	2420.9	2420.9	2420.9
2.5°	2402.2	2402.2	2400.1	2402.2	2402.2
5°	2348.2	2348.2	2348.2	2350.3	2352.3
7.5°	2269.2	2269.2	2265.1	2271.3	2273.4
10°	2175.7	2169.5	2167.4	2171.5	2181.9
12.5°	2065.6	2055.2	2044.8	2057.2	2071.8
15°	1949.2	1928.4	1915.9	1932.6	1953.3
17.5°	1820.4	1793.3	1774.6	1799.6	1826.6
20°	1687.4	1658.3	1627.1	1662.4	1693.6
22.5°	1550.2	1512.8	1481.6	1523.2	1566.8
25°	1415.1	1373.6	1336.2	1381.9	1431.8
27.5°	1275.9	1230.2	1192.8	1242.7	1296.7
30°	1136.7	1088.9	1053.6	1105.5	1153.3
32.5°	987.1	939.3	922.6	955.9	1001.6
35°	831.2	800.0	798.0	810.4	849.9
37.5°	671.2	667.0	673.3	675.4	675.4
40°	486.3	529.9	556.9	540.3	496.6
42.5°	336.6	396.9	446.8	403.1	347.0
45°	236.9	284.7	357.4	288.8	241.1
47.5°	172.5	209.9	282.6	212.0	174.6
50°	135.1	157.9	212.0	155.9	137.1
52.5°	110.1	124.7	151.7	124.7	112.2
55°	89.4	99.7	110.1	101.8	91.4
57.5°	74.8	81.0	83.1	83.1	74.8
60°	58.2	64.4	66.5	64.4	58.2
62.5°	43.6	49.9	54.0	52.0	43.6
65°	37.4	39.5	43.6	39.5	37.4
67.5°	33.2	33.2	35.3	33.2	33.2
70°	27.0	29.1	29.1	29.1	27.0
72.5°	22.9	22.9	22.9	22.9	22.9
75°	18.7	18.7	18.7	18.7	18.7
77.5°	14.5	14.5	14.5	14.5	14.5
80°	10.4	10.4	10.4	12.5	10.4
82.5°	8.3	8.3	8.3	8.3	8.3
85°	4.2	4.2	4.2	4.2	4.2
87.5°	2.1	2.1	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)