

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: P238185

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238185
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-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2380.6 lumens
Efficiency: N/A
Efficacy: 119.0 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

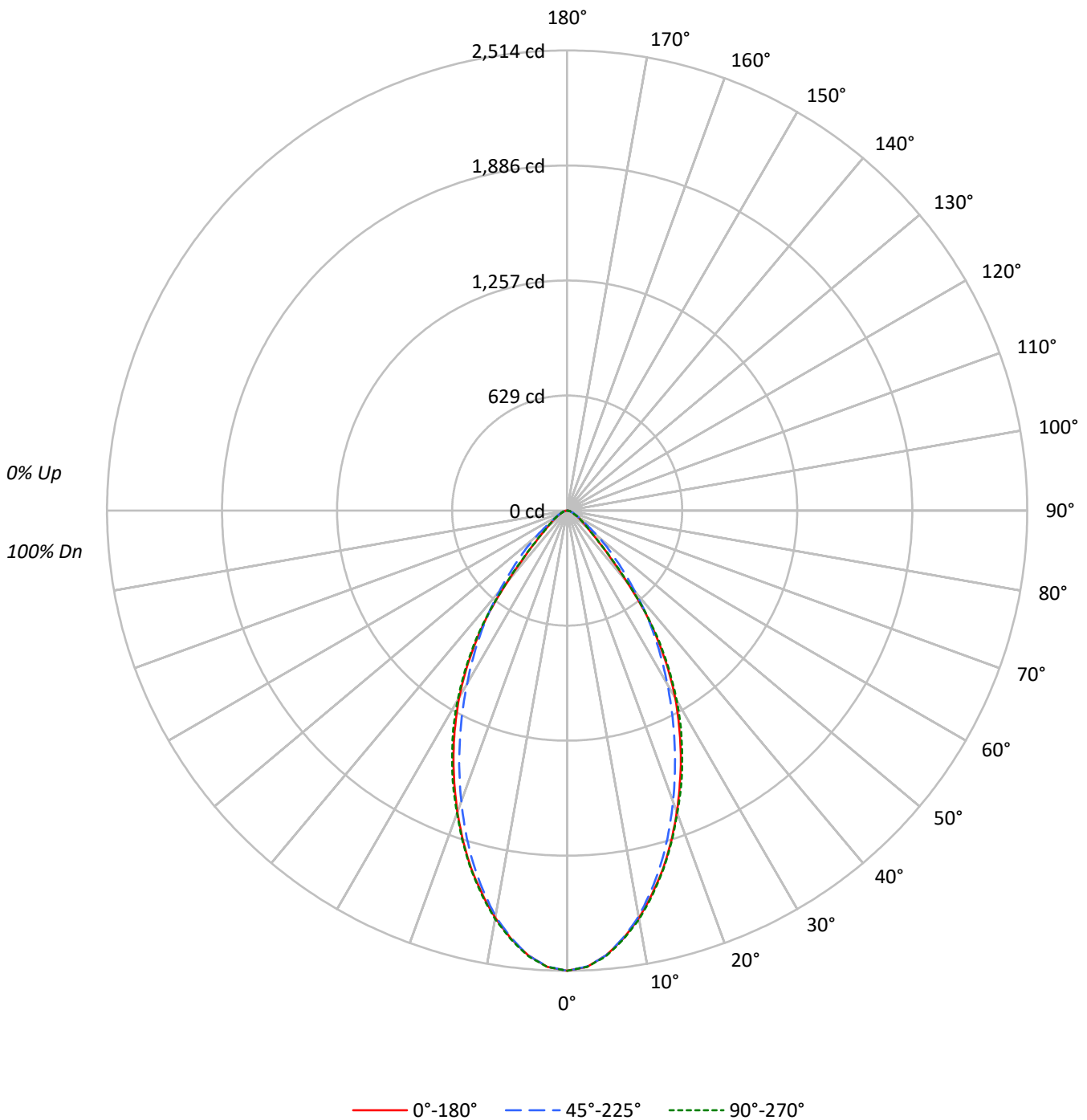
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	108259	108259	108259
5°	105410	105410	105595
10°	98794	98418	99078
15°	90241	88703	90433
20°	80298	77434	80595
25°	69825	65930	70647
30°	58695	54405	59555
35°	45376	43563	46396
40°	28384	32509	28991
45°	14979	22602	15247
50°	9398	14743	9538
55°	6966	8587	7131
60°	5201	5950	5201
65°	3953	4615	3953
70°	3537	3802	3537
75°	3227	3227	3227
80°	2678	2678	2678
85°	2124	2124	2124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.0	9.5
10°-20°	559.2	23.5
20°-30°	654.9	27.5
30°-40°	523.2	22.0
40°-50°	248.7	10.4
50°-60°	97.8	4.1
60°-70°	43.5	1.8
70°-80°	20.7	0.9
80°-90°	5.6	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°	1441.1	60.5
0°-40°	1964.2	82.5
0°-60°	2310.7	97.1
0°-90°	2380.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2380.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2514	2514	2514	2514	2514	
5°	2439	2439	2439	2441	2443	227
15°	2024	2003	1990	2007	2029	564
25°	1470	1427	1388	1435	1487	672
35°	863	831	829	842	883	530
45°	246	296	371	300	250	209
55°	93	104	114	106	95	86
65°	39	41	45	41	39	40
75°	19	19	19	19	19	20
85°	4	4	4	4	4	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2514.4	2514.4	2514.4	2514.4	2514.4
2.5°	2495.0	2495.0	2492.8	2495.0	2495.0
5°	2438.9	2438.9	2438.9	2441.0	2443.2
7.5°	2356.9	2356.9	2352.6	2359.0	2361.2
10°	2259.7	2253.3	2251.1	2255.4	2266.2
12.5°	2145.4	2134.6	2123.8	2136.7	2151.8
15°	2024.5	2002.9	1990.0	2007.2	2028.8
17.5°	1890.7	1862.6	1843.2	1869.1	1897.2
20°	1752.5	1722.3	1690.0	1726.6	1759.0
22.5°	1610.1	1571.2	1538.9	1582.0	1627.4
25°	1469.8	1426.6	1387.8	1435.3	1487.1
27.5°	1325.2	1277.7	1238.9	1290.7	1346.8
30°	1180.6	1131.0	1094.3	1148.2	1197.9
32.5°	1025.2	975.6	958.3	992.8	1040.3
35°	863.3	830.9	828.8	841.7	882.7
37.5°	697.1	692.8	699.3	701.5	701.5
40°	505.0	550.4	578.4	561.2	515.8
42.5°	349.6	412.2	464.0	418.7	360.4
45°	246.0	295.7	371.2	300.0	250.4
47.5°	179.1	218.0	293.5	220.1	181.3
50°	140.3	164.0	220.1	161.9	142.4
52.5°	114.4	129.5	157.6	129.5	116.5
55°	92.8	103.6	114.4	105.8	95.0
57.5°	77.7	84.2	86.3	86.3	77.7
60°	60.4	66.9	69.1	66.9	60.4
62.5°	45.3	51.8	56.1	54.0	45.3
65°	38.8	41.0	45.3	41.0	38.8
67.5°	34.5	34.5	36.7	34.5	34.5
70°	28.1	30.2	30.2	30.2	28.1
72.5°	23.7	23.7	23.7	23.7	23.7
75°	19.4	19.4	19.4	19.4	19.4
77.5°	15.1	15.1	15.1	15.1	15.1
80°	10.8	10.8	10.8	12.9	10.8
82.5°	8.6	8.6	8.6	8.6	8.6
85°	4.3	4.3	4.3	4.3	4.3
87.5°	2.2	2.2	2.2	2.2	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)