

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: P238180

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238180
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
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

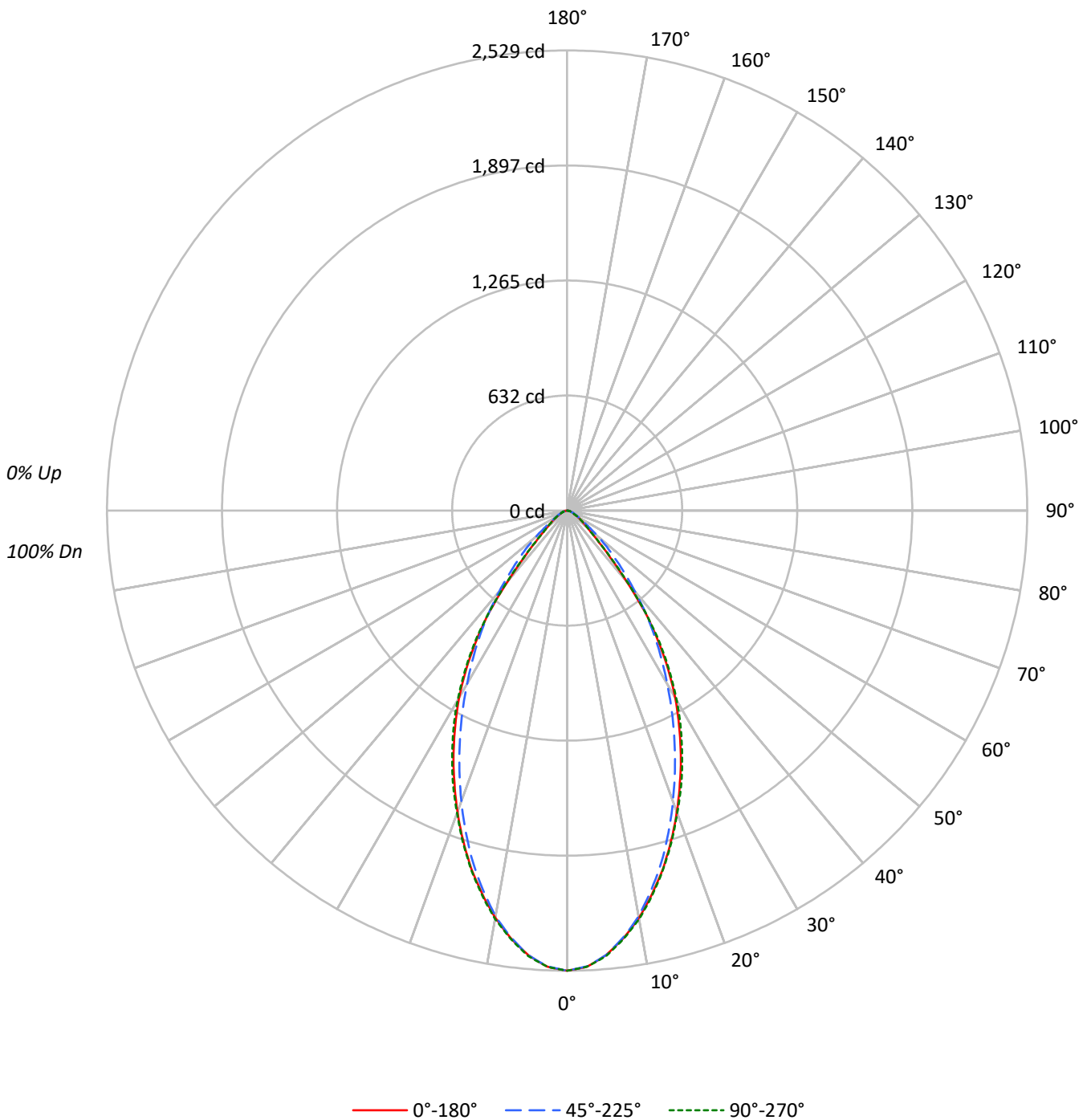
Lumens per Lamp: N/A
Luminaire Lumens: 2394.3 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.87
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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°	108879	108879	108879
5°	106010	106010	106200
10°	99362	98982	99646
15°	90758	89207	90950
20°	80760	77874	81058
25°	70224	66305	71051
30°	59033	54713	59893
35°	45639	43810	46664
40°	28547	32695	29159
45°	15070	22736	15332
50°	9451	14830	9599
55°	7004	8633	7169
60°	5236	5985	5236
65°	3983	4646	3983
70°	3550	3827	3550
75°	3244	3244	3244
80°	2703	2703	2703
85°	2124	2124	2124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.3	9.5
10°-20°	562.4	23.5
20°-30°	658.6	27.5
30°-40°	526.2	22.0
40°-50°	250.2	10.4
50°-60°	98.3	4.1
60°-70°	43.7	1.8
70°-80°	20.9	0.9
80°-90°	5.7	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°	1449.3	60.5
0°-40°	1975.5	82.5
0°-60°	2324.0	97.1
0°-90°	2394.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2394.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2529	2529	2529	2529	2529	
5°	2453	2453	2453	2455	2457	228
15°	2036	2014	2001	2019	2040	568
25°	1478	1435	1396	1444	1496	676
35°	868	836	834	847	888	533
45°	248	297	373	302	252	210
55°	93	104	115	106	96	86
65°	39	41	46	41	39	40
75°	20	20	20	20	20	21
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°	2528.8	2528.8	2528.8	2528.8	2528.8
2.5°	2509.3	2509.3	2507.1	2509.3	2509.3
5°	2452.8	2452.8	2452.8	2455.0	2457.2
7.5°	2370.4	2370.4	2366.0	2372.5	2374.7
10°	2272.7	2266.2	2264.0	2268.3	2279.2
12.5°	2157.6	2146.8	2135.9	2149.0	2164.1
15°	2036.1	2014.4	2001.3	2018.7	2040.4
17.5°	1901.5	1873.3	1853.7	1879.8	1908.0
20°	1762.6	1732.2	1699.6	1736.5	1769.1
22.5°	1619.3	1580.2	1547.7	1591.1	1636.7
25°	1478.2	1434.8	1395.7	1443.5	1495.6
27.5°	1332.8	1285.0	1246.0	1298.1	1354.5
30°	1187.4	1137.4	1100.5	1154.8	1204.7
32.5°	1031.1	981.1	963.8	998.5	1046.3
35°	868.3	835.7	833.5	846.6	887.8
37.5°	701.1	696.8	703.3	705.5	705.5
40°	507.9	553.5	581.7	564.4	518.8
42.5°	351.6	414.6	466.7	421.1	362.5
45°	247.5	297.4	373.4	301.7	251.8
47.5°	180.2	219.2	295.2	221.4	182.3
50°	141.1	165.0	221.4	162.8	143.3
52.5°	115.0	130.2	158.5	130.2	117.2
55°	93.3	104.2	115.0	106.4	95.5
57.5°	78.1	84.7	86.8	86.8	78.1
60°	60.8	67.3	69.5	67.3	60.8
62.5°	45.6	52.1	56.4	54.3	45.6
65°	39.1	41.2	45.6	41.2	39.1
67.5°	34.7	34.7	36.9	34.7	34.7
70°	28.2	30.4	30.4	30.4	28.2
72.5°	23.9	23.9	23.9	23.9	23.9
75°	19.5	19.5	19.5	19.5	19.5
77.5°	15.2	15.2	15.2	15.2	15.2
80°	10.9	10.9	10.9	13.0	10.9
82.5°	8.7	8.7	8.7	8.7	8.7
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)