

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: P253030

Luminaire Tested: **PRS620D010-S6M12-64SWDMW-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253030
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-748-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS620D010-S6M12-64SWDMW-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW 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: 2292.2 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.32 / 1.41
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

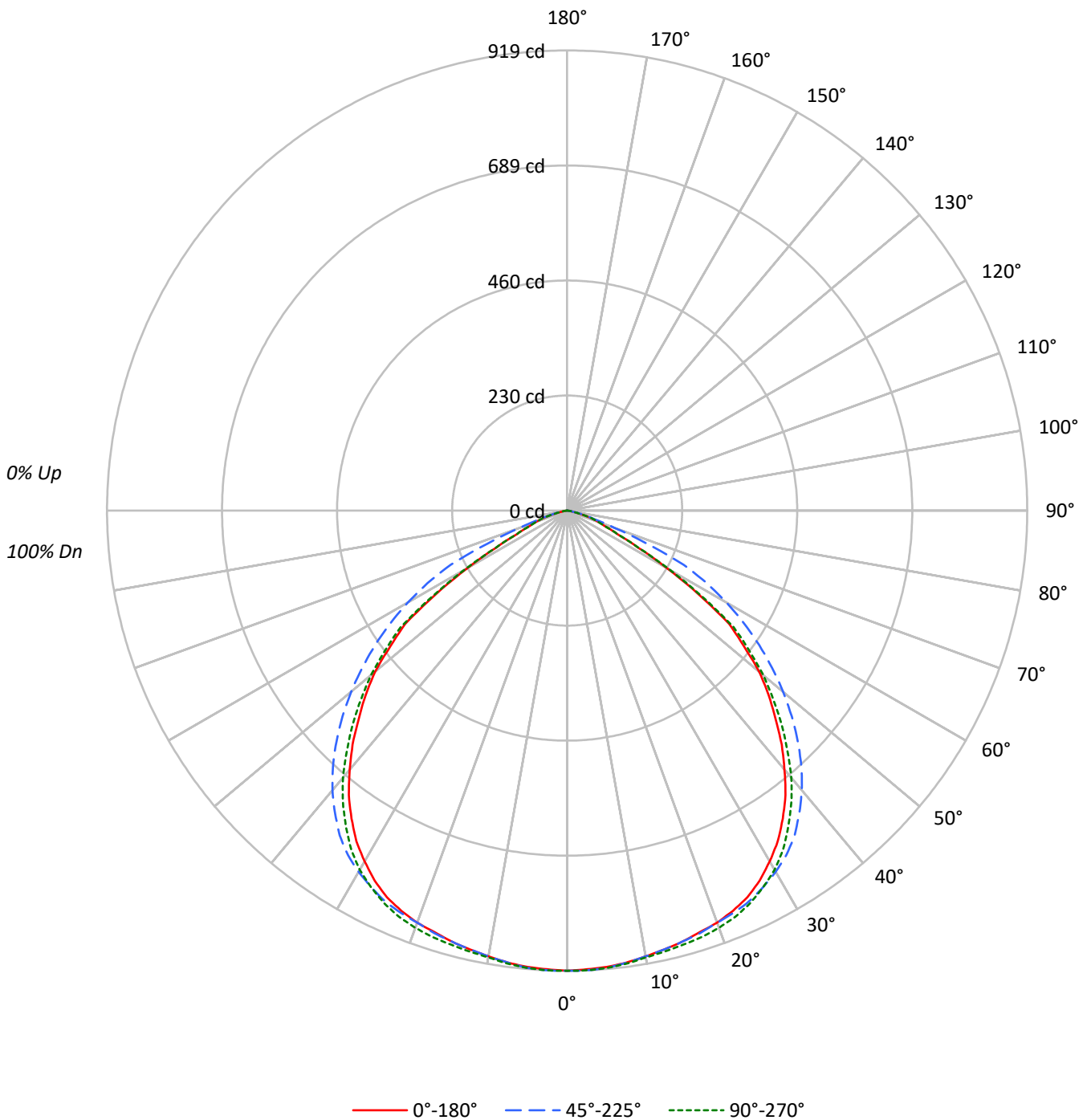
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90					88				
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78					76				
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67					65				
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59					57				
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52					50				
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46					44				
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41					39				
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36					35				
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33					31				
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	39572	39572	39572
5°	39533	39629	39629
10°	39518	39518	39615
15°	39716	39716	40006
20°	40133	40133	40628
25°	40485	40894	41098
30°	40221	41404	41185
35°	39463	41618	40483
40°	37955	40985	39164
45°	35864	39670	36911
50°	33525	37718	34248
55°	29636	35146	30446
60°	19874	31586	20434
65°	11207	26152	11207
70°	8422	12765	8145
75°	5024	5739	5390
80°	2132	2678	2132
85°	1087	1087	1087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	3.8
10°-20°	252.5	11.0
20°-30°	395.7	17.3
30°-40°	483.4	21.1
40°-50°	480.6	21.0
50°-60°	379.4	16.6
60°-70°	169.8	7.4
70°-80°	39.6	1.7
80°-90°	4.1	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°	735.3	32.1
0°-40°	1218.7	53.2
0°-60°	2078.7	90.7
0°-90°	2292.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2292.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	919	919	919	919	919	
5°	915	915	917	917	917	87
15°	891	889	891	893	898	252
25°	852	854	861	863	865	392
35°	751	766	792	781	770	468
45°	589	617	652	632	606	454
55°	395	425	468	434	406	338
65°	110	144	257	147	110	123
75°	30	37	34	37	32	34
85°	2	2	2	2	2	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	919.1	919.1	919.1	919.1	919.1
2.5°	916.9	919.1	919.1	919.1	919.1
5°	914.7	914.7	916.9	916.9	916.9
7.5°	910.4	910.4	910.4	912.6	912.6
10°	903.9	903.9	903.9	906.1	906.1
12.5°	897.5	897.5	897.5	899.6	901.8
15°	891.0	888.8	891.0	893.2	897.5
17.5°	882.4	884.5	884.5	888.8	893.2
20°	875.9	875.9	875.9	882.4	886.7
22.5°	865.1	865.1	869.4	873.7	878.1
25°	852.2	854.3	860.8	863.0	865.1
27.5°	832.8	839.2	847.9	850.0	847.9
30°	809.0	817.7	832.8	830.6	828.4
32.5°	783.1	793.9	815.5	809.0	802.6
35°	750.8	765.9	791.8	781.0	770.2
37.5°	716.3	735.7	761.6	750.8	735.7
40°	675.3	699.0	729.2	714.1	696.8
42.5°	634.3	660.2	692.5	673.1	651.5
45°	589.0	617.0	651.5	632.1	606.2
47.5°	545.8	573.9	608.4	584.7	558.8
50°	500.5	526.4	563.1	537.2	511.3
52.5°	444.4	478.9	515.6	487.6	457.4
55°	394.8	425.0	468.2	433.6	405.6
57.5°	310.7	371.1	418.5	377.5	319.3
60°	230.8	289.1	366.8	297.7	237.3
62.5°	159.6	213.6	315.0	215.7	161.8
65°	110.0	144.5	256.7	146.7	110.0
67.5°	82.0	97.1	172.6	97.1	82.0
70°	66.9	71.2	101.4	71.2	64.7
72.5°	49.6	56.1	56.1	56.1	51.8
75°	30.2	36.7	34.5	36.7	32.4
77.5°	12.9	17.3	21.6	19.4	12.9
80°	8.6	8.6	10.8	8.6	8.6
82.5°	6.5	6.5	6.5	6.5	6.5
85°	2.2	2.2	2.2	2.2	2.2
87.5°	2.2	2.2	2.2	2.2	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)