

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: P238110

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-11)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS620D010-S6M12-64SMDC-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2413.0 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 1.03
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

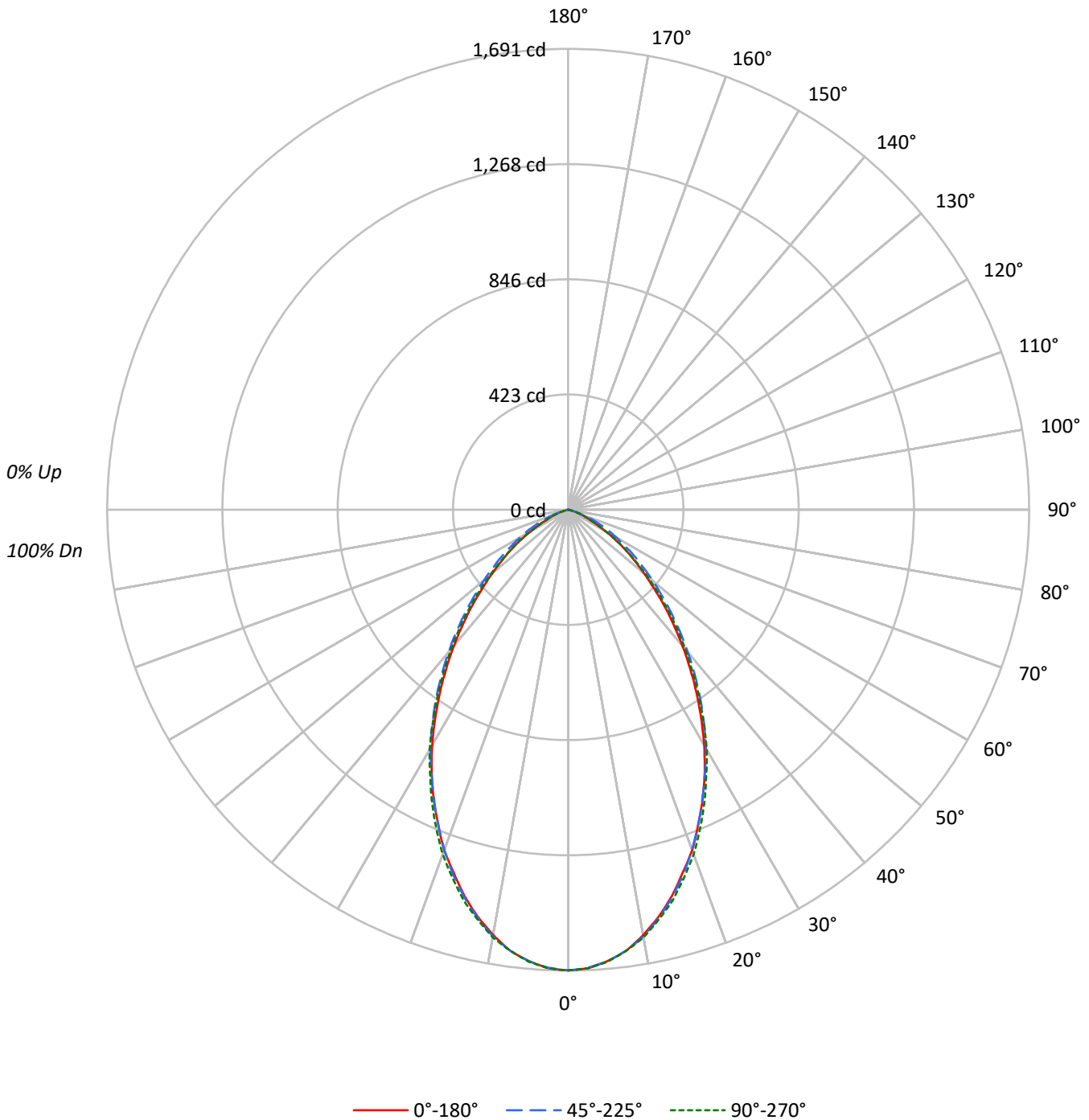
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80					80			
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	71					71			
4	91	81	74	69	89	80	73	68	77	72	67	75	70	66	73	69	66	64					64			
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57					57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52					52			
7	74	63	55	50	72	62	55	50	60	54	50	59	53	49	58	53	49	47					47			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	66	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	72794	72794	72794
5°	71858	71858	71953
10°	69292	69480	69668
15°	65449	65640	66122
20°	60944	60843	61636
25°	55497	55393	56215
30°	49597	50238	50562
35°	43127	44377	43920
40°	36651	38349	37500
45°	30372	32473	31157
50°	24301	27048	25018
55°	19127	22204	19449
60°	13571	17481	13761
65°	8802	13203	9016
70°	5980	8157	5980
75°	2878	3593	2878
80°	0	545	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	6.5
10°-20°	412.7	17.1
20°-30°	537.2	22.3
30°-40°	521.0	21.6
40°-50°	402.7	16.7
50°-60°	249.0	10.3
60°-70°	109.8	4.6
70°-80°	24.1	1.0
80°-90°	0.1	0.0
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°	1106.3	45.8
0°-40°	1627.3	67.4
0°-60°	2279.0	94.4
0°-90°	2413.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2413.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1691	1691	1691	1691	1691	
5°	1663	1665	1663	1665	1665	156
15°	1468	1470	1473	1481	1483	411
25°	1168	1166	1166	1177	1183	535
35°	820	829	844	838	836	512
45°	499	518	533	527	512	385
55°	255	274	296	278	259	229
65°	86	104	130	104	88	91
75°	17	22	22	22	17	20
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1690.7	1690.7	1690.7	1690.7	1690.7
2.5°	1684.2	1684.2	1682.1	1684.2	1684.2
5°	1662.6	1664.8	1662.6	1664.8	1664.8
7.5°	1632.4	1632.4	1632.4	1634.6	1632.4
10°	1584.9	1587.0	1589.2	1591.4	1593.5
12.5°	1530.9	1533.1	1535.2	1539.5	1539.5
15°	1468.3	1470.4	1472.6	1481.2	1483.4
17.5°	1397.0	1399.2	1403.5	1412.1	1414.3
20°	1330.1	1323.6	1327.9	1334.4	1345.2
22.5°	1248.0	1248.0	1248.0	1256.7	1265.3
25°	1168.2	1166.0	1166.0	1176.8	1183.3
27.5°	1083.9	1083.9	1086.1	1092.6	1096.9
30°	997.6	997.6	1010.5	1008.4	1017.0
32.5°	906.9	913.4	926.3	922.0	924.2
35°	820.5	829.2	844.3	837.8	835.6
37.5°	734.1	744.9	762.2	755.7	749.3
40°	652.1	667.2	682.3	673.7	667.2
42.5°	572.2	589.5	606.7	598.1	589.5
45°	498.8	518.2	533.3	526.9	511.7
47.5°	425.4	449.1	464.2	457.8	442.6
50°	362.8	386.5	403.8	393.0	373.5
52.5°	306.6	328.2	345.5	332.5	313.1
55°	254.8	274.2	295.8	278.5	259.1
57.5°	205.1	226.7	246.2	231.0	209.4
60°	157.6	181.4	203.0	185.7	159.8
62.5°	116.6	140.4	166.3	142.5	118.8
65°	86.4	103.6	129.6	103.6	88.5
67.5°	64.8	75.6	97.2	77.7	64.8
70°	47.5	56.1	64.8	56.1	47.5
72.5°	32.4	38.9	38.9	38.9	32.4
75°	17.3	21.6	21.6	21.6	17.3
77.5°	2.2	6.5	8.6	6.5	2.2
80°	0.0	0.0	2.2	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)