

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: P238105

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238105  
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  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM SPECULAR  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2426.8 lumens  
Efficiency: N/A  
Efficacy: 121.3 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

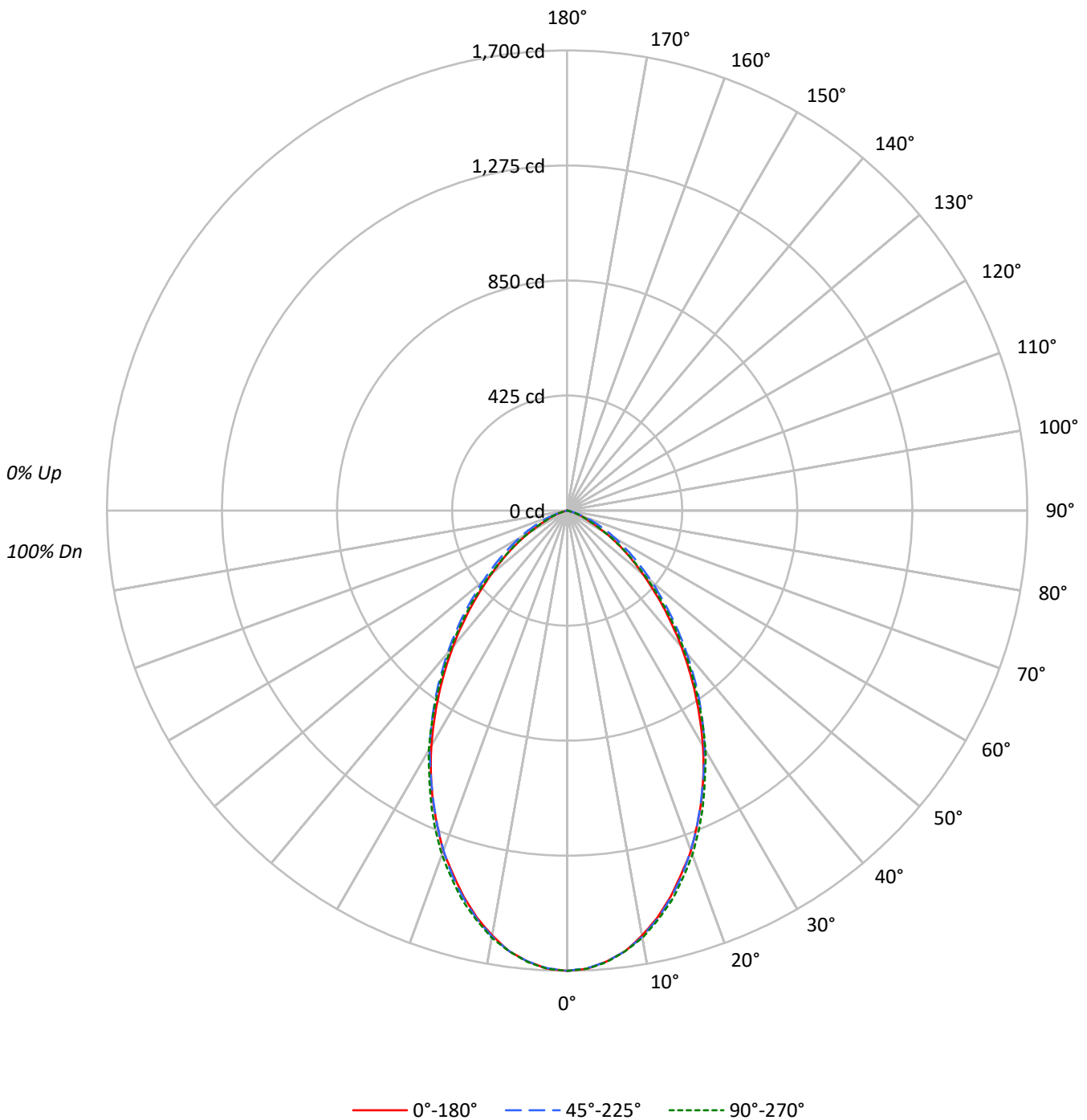
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	73212	73212	73212
5°	72268	72268	72363
10°	69689	69877	70065
15°	65823	66015	66501
20°	61292	61191	61988
25°	55811	55711	56533
30°	49880	50527	50850
35°	43374	44630	44172
40°	36859	38568	37714
45°	30542	32661	31340
50°	24435	27202	25165
55°	19232	22332	19562
60°	13649	17575	13838
65°	8853	13275	9067
70°	6017	8195	6017
75°	2895	3610	2895
80°	0	545	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.4	6.5
10°-20°	415.0	17.1
20°-30°	540.2	22.3
30°-40°	524.0	21.6
40°-50°	405.0	16.7
50°-60°	250.5	10.3
60°-70°	110.4	4.6
70°-80°	24.3	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°	1112.6	45.8
0°-40°	1636.6	67.4
0°-60°	2292.1	94.4
0°-90°	2426.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2426.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1700	1700	1700	1700	1700	
5°	1672	1674	1672	1674	1674	157
15°	1477	1479	1481	1490	1492	413
25°	1175	1173	1173	1184	1190	538
35°	825	834	849	843	840	515
45°	502	521	536	530	515	387
55°	256	276	298	280	261	230
65°	87	104	130	104	89	92
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°	1700.4	1700.4	1700.4	1700.4	1700.4
2.5°	1693.9	1693.9	1691.7	1693.9	1693.9
5°	1672.1	1674.3	1672.1	1674.3	1674.3
7.5°	1641.7	1641.7	1641.7	1643.9	1641.7
10°	1594.0	1596.1	1598.3	1600.5	1602.6
12.5°	1539.7	1541.8	1544.0	1548.4	1548.4
15°	1476.7	1478.9	1481.0	1489.7	1491.9
17.5°	1405.0	1407.2	1411.5	1420.2	1422.4
20°	1337.7	1331.2	1335.5	1342.1	1352.9
22.5°	1255.2	1255.2	1255.2	1263.9	1272.6
25°	1174.8	1172.7	1172.7	1183.5	1190.0
27.5°	1090.1	1090.1	1092.3	1098.8	1103.2
30°	1003.3	1003.3	1016.3	1014.1	1022.8
32.5°	912.1	918.6	931.6	927.3	929.4
35°	825.2	833.9	849.1	842.6	840.4
37.5°	738.3	749.2	766.6	760.1	753.5
40°	655.8	671.0	686.2	677.5	671.0
42.5°	575.5	592.8	610.2	601.5	592.8
45°	501.6	521.2	536.4	529.9	514.7
47.5°	427.8	451.7	466.9	460.4	445.2
50°	364.8	388.7	406.1	395.2	375.7
52.5°	308.4	330.1	347.5	334.4	314.9
55°	256.2	275.8	297.5	280.1	260.6
57.5°	206.3	228.0	247.6	232.4	210.6
60°	158.5	182.4	204.1	186.8	160.7
62.5°	117.3	141.2	167.2	143.3	119.4
65°	86.9	104.2	130.3	104.2	89.0
67.5°	65.1	76.0	97.7	78.2	65.1
70°	47.8	56.5	65.1	56.5	47.8
72.5°	32.6	39.1	39.1	39.1	32.6
75°	17.4	21.7	21.7	21.7	17.4
77.5°	2.2	6.5	8.7	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)