

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: P238020

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238020  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-5)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS620D010-S6M12-64SMDMW-4000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM 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: 2438.9 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.95 / 1.01  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

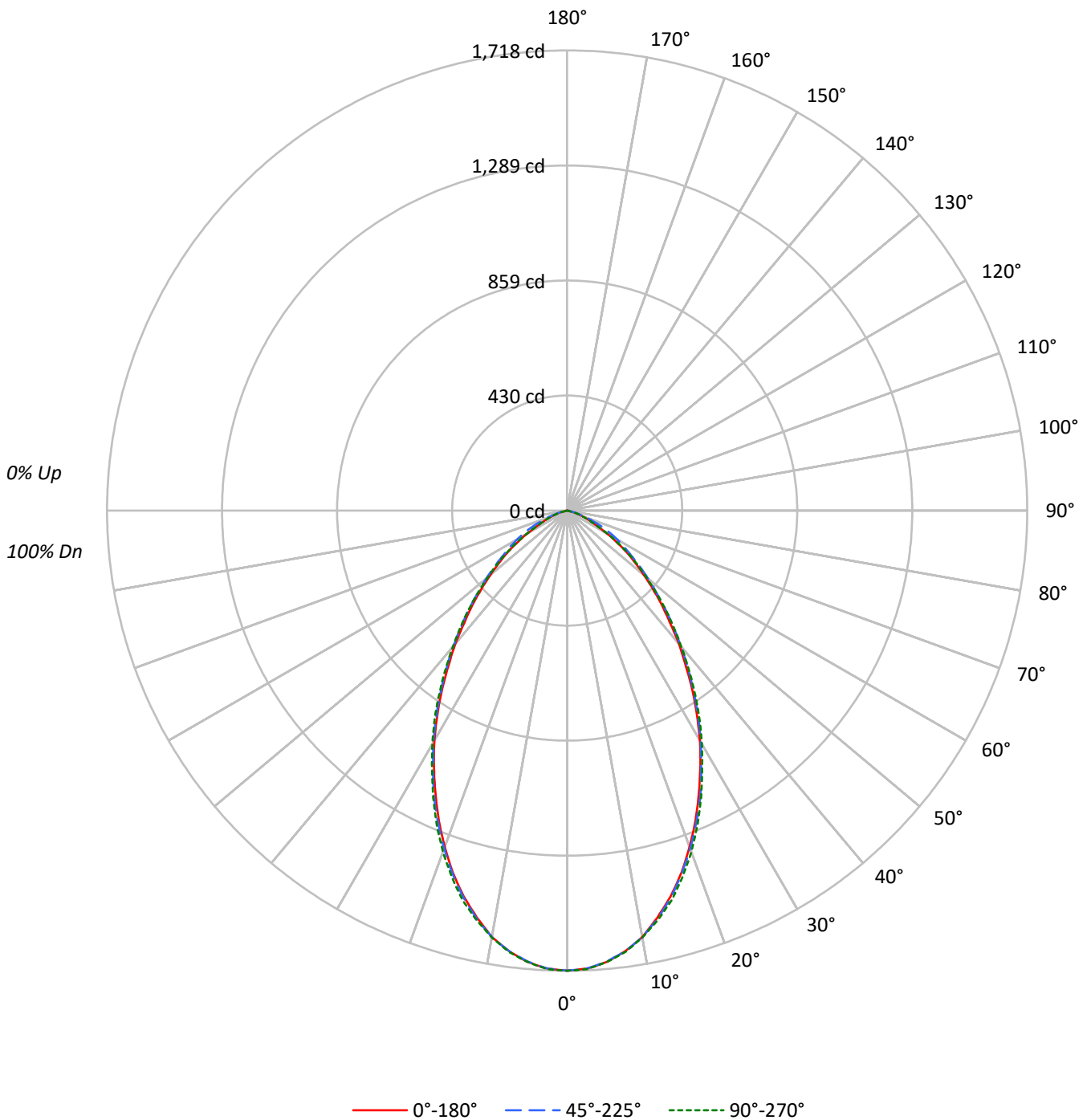
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90					90			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80					80			
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71					71			
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63					63			
5	84	74	66	61	82	73	66	60	71	65	60	69	64	59	67	62	59	57					57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	52	49	47					47			
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36					36			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	73965	73965	73965
5°	73128	73038	73128
10°	70673	70673	70765
15°	66474	66666	67147
20°	61209	61507	62098
25°	55265	55877	56186
30°	49249	49572	50000
35°	42764	43221	43673
40°	36511	37118	37242
45°	30488	31407	31407
50°	25152	26311	25735
55°	20253	21874	20733
60°	14871	18583	15242
65°	10117	14732	10330
70°	7339	9504	7339
75°	4309	5024	3943
80°	1066	1612	1066
85°	1087	1087	1087



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.1	6.5
10°-20°	418.7	17.2
20°-30°	537.6	22.0
30°-40°	513.7	21.1
40°-50°	397.8	16.3
50°-60°	255.9	10.5
60°-70°	121.3	5.0
70°-80°	32.4	1.3
80°-90°	2.4	0.1
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°	1115.4	45.7
0°-40°	1629.1	66.8
0°-60°	2282.8	93.6
0°-90°	2438.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2438.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1718	1718	1718	1718	1718	
5°	1692	1692	1690	1692	1692	159
15°	1491	1494	1496	1502	1506	417
25°	1163	1165	1176	1178	1183	534
35°	814	816	822	827	831	508
45°	501	512	516	520	516	387
55°	270	285	291	289	276	241
65°	99	114	145	114	101	104
75°	26	30	30	30	24	28
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1717.9	1717.9	1717.9	1717.9	1717.9
2.5°	1711.4	1711.4	1711.4	1711.4	1713.6
5°	1692.0	1692.0	1689.9	1692.0	1692.0
7.5°	1659.6	1659.6	1659.6	1661.8	1661.8
10°	1616.5	1616.5	1616.5	1618.6	1618.6
12.5°	1556.0	1558.2	1560.4	1564.7	1564.7
15°	1491.3	1493.5	1495.6	1502.1	1506.4
17.5°	1417.9	1420.1	1422.2	1430.9	1433.0
20°	1335.9	1335.9	1342.4	1353.2	1355.3
22.5°	1251.7	1253.9	1260.4	1264.7	1271.2
25°	1163.3	1165.4	1176.2	1178.4	1182.7
27.5°	1076.9	1076.9	1083.4	1087.7	1092.0
30°	990.6	990.6	997.1	999.2	1005.7
32.5°	900.0	902.1	908.6	912.9	919.4
35°	813.6	815.8	822.3	826.6	830.9
37.5°	725.1	735.9	740.3	744.6	744.6
40°	649.6	656.1	660.4	666.9	662.6
42.5°	567.6	582.7	584.9	591.3	587.0
45°	500.7	511.5	515.8	520.1	515.8
47.5°	433.8	446.7	451.1	453.2	446.7
50°	375.5	386.3	392.8	392.8	384.2
52.5°	319.4	332.4	338.8	338.8	330.2
55°	269.8	284.9	291.4	289.2	276.2
57.5°	218.0	237.4	252.5	241.7	224.5
60°	172.7	194.2	215.8	196.4	177.0
62.5°	129.5	151.1	179.1	153.2	131.6
65°	99.3	114.4	144.6	114.4	101.4
67.5°	77.7	86.3	107.9	86.3	77.7
70°	58.3	64.7	75.5	64.7	58.3
72.5°	41.0	47.5	49.6	47.5	41.0
75°	25.9	30.2	30.2	30.2	23.7
77.5°	8.6	12.9	17.3	12.9	8.6
80°	4.3	4.3	6.5	4.3	4.3
82.5°	4.3	4.3	4.3	4.3	4.3
85°	2.2	2.2	2.2	2.2	2.2
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)