

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: P238240

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238240  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-20)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS620D010-S6M12-61SMDH  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2266.2 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.95  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

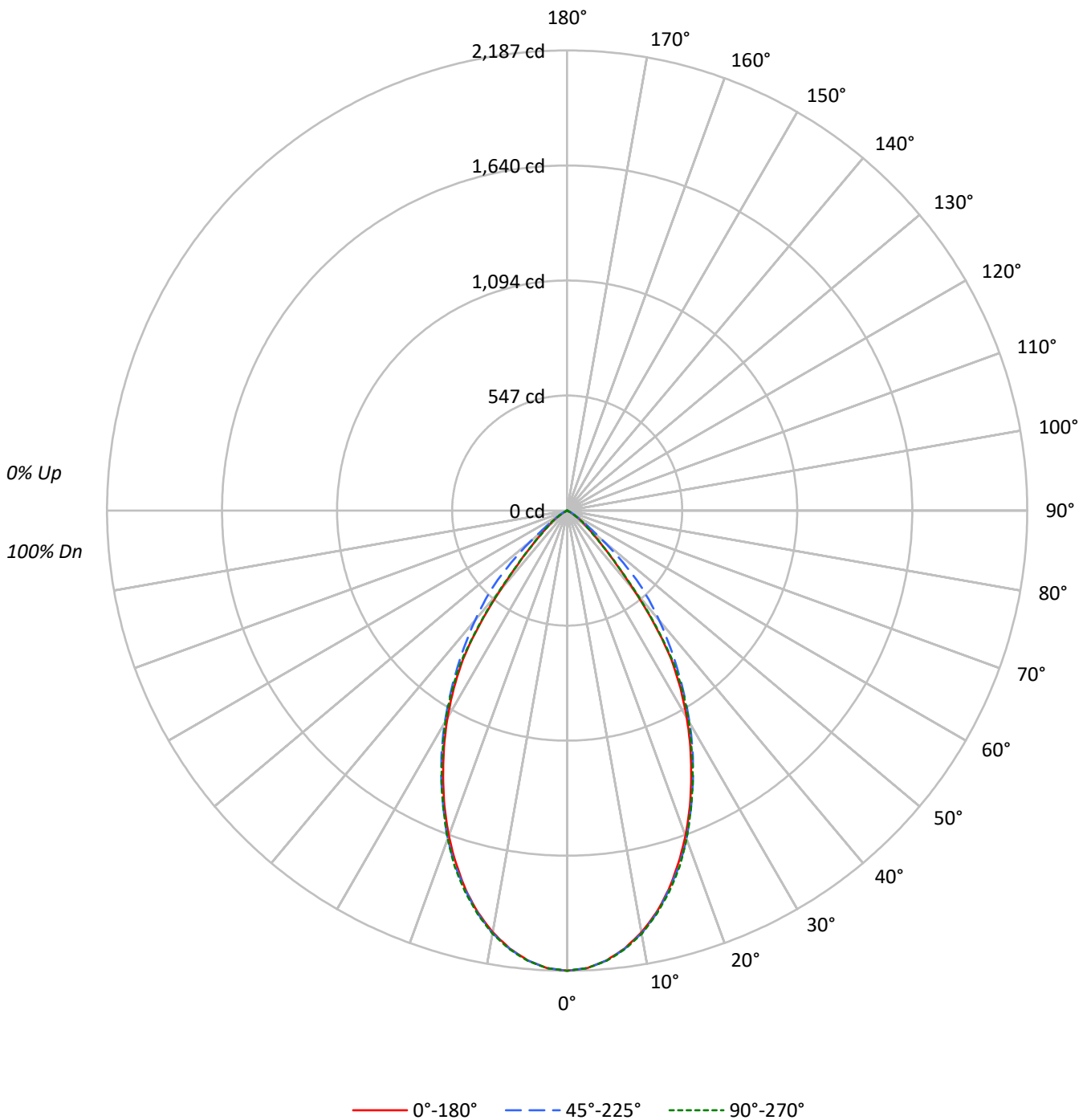
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	97	96	94	93		
1	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	93	91	89	87	85		
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	81	80	80	78		
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78	78	78	74	73	73	72		
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72	72	72	68	68	66	66		
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	66	63	63	61	61		
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61	61	61	58	58	57	57		
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57	57	57	54	54	52	52		
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52	52	52	50	50	49	49		
9	72	62	55	51	71	61	55	51	60	55	51	59	54	50	58	54	50	49	49	49	47	47	46	46		
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46	46	46	44	44	43	43		

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

	0°	45°	90°
0°	94171	94171	94171
5°	92746	92746	92841
10°	88983	89171	89267
15°	83082	83274	83564
20°	75358	76055	76055
25°	66281	67208	67103
30°	56528	57820	57497
35°	45392	47673	46301
40°	27681	38175	28535
45°	14662	28405	14796
50°	8426	14683	8426
55°	5210	6351	5210
60°	1869	2988	1869
65°	438	1100	438
70°	277	277	277
75°	366	366	366
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.5	8.9
10°-20°	521.9	23.0
20°-30°	644.2	28.4
30°-40°	550.1	24.3
40°-50°	263.3	11.6
50°-60°	74.0	3.3
60°-70°	9.7	0.4
70°-80°	1.4	0.1
80°-90°	0.0	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°	1367.6	60.3
0°-40°	1917.8	84.6
0°-60°	2255.1	99.5
0°-90°	2266.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2266.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2187	2187	2187	2187	2187	
5°	2146	2148	2146	2148	2148	201
15°	1864	1866	1868	1875	1875	520
25°	1395	1402	1415	1415	1412	638
35°	864	896	907	907	881	521
45°	241	299	466	302	243	202
55°	69	80	85	78	69	62
65°	4	4	11	4	4	7
75°	2	2	2	2	2	1
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°	2187.2	2187.2	2187.2	2187.2	2187.2
2.5°	2176.3	2176.3	2176.3	2176.3	2176.3
5°	2145.9	2148.1	2145.9	2148.1	2148.1
7.5°	2098.2	2100.4	2100.4	2102.6	2102.6
10°	2035.3	2037.5	2039.6	2039.6	2041.8
12.5°	1957.2	1957.2	1961.5	1963.7	1963.7
15°	1863.9	1866.0	1868.2	1874.7	1874.7
17.5°	1757.5	1761.9	1768.4	1770.6	1774.9
20°	1644.7	1644.7	1659.9	1657.7	1659.9
22.5°	1523.2	1529.7	1536.2	1540.6	1536.2
25°	1395.2	1401.7	1414.7	1414.7	1412.5
27.5°	1267.2	1273.7	1291.0	1284.5	1280.2
30°	1137.0	1143.5	1163.0	1152.2	1156.5
32.5°	1002.5	1022.0	1032.8	1032.8	1022.0
35°	863.6	896.1	907.0	907.0	880.9
37.5°	683.5	761.6	792.0	768.1	692.2
40°	492.5	594.5	679.2	605.4	507.7
42.5°	345.0	431.8	575.0	438.3	349.3
45°	240.8	299.4	466.5	301.6	243.0
47.5°	169.2	208.3	338.5	208.3	169.2
50°	125.8	147.5	219.2	145.4	125.8
52.5°	95.5	108.5	134.5	106.3	95.5
55°	69.4	80.3	84.6	78.1	69.4
57.5°	43.4	54.2	54.2	54.2	41.2
60°	21.7	30.4	34.7	30.4	21.7
62.5°	6.5	13.0	21.7	13.0	6.5
65°	4.3	4.3	10.8	4.3	4.3
67.5°	4.3	4.3	4.3	4.3	4.3
70°	2.2	2.2	2.2	2.2	2.2
72.5°	2.2	2.2	2.2	2.2	2.2
75°	2.2	2.2	2.2	2.2	2.2
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	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)