

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: P238065

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238065  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-8)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS620D010-S6M12-64SMDH-4000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2400.1 lumens  
Efficiency: N/A  
Efficacy: 120.0 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

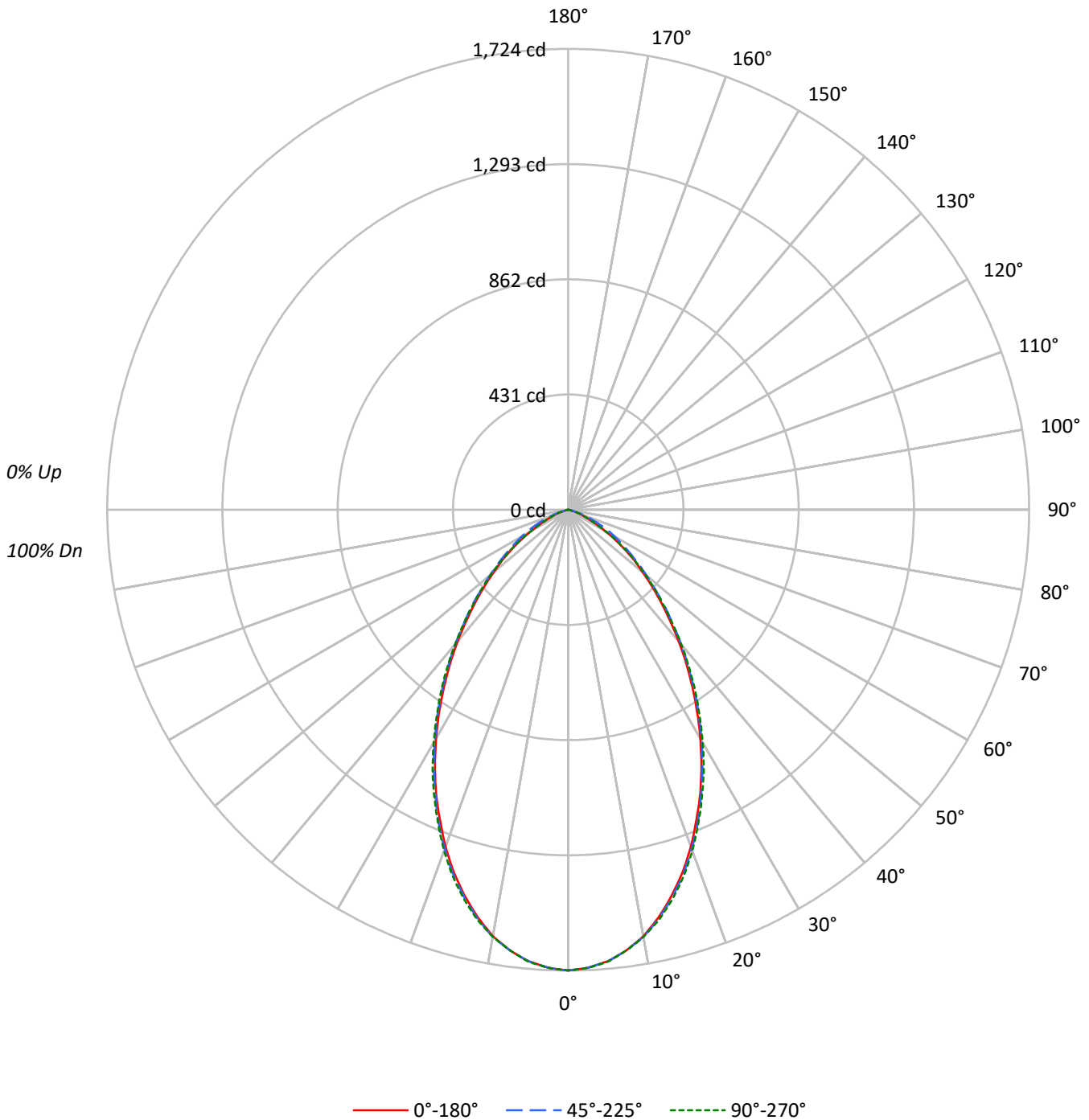
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	109	106	103	101	102	100	98	98	97	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	88	82	77	85	80	76	82	78	75	80	76	73	72					72			
4	91	81	74	69	89	80	73	68	78	72	68	75	71	67	73	69	66	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52					52			
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44					44			
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	45	42	40					40			
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	48	42	39	37					37			

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

	0°	45°	90°
0°	74219	74219	74219
5°	73288	73288	73383
10°	70835	70931	70931
15°	66643	66933	67218
20°	61484	61878	62176
25°	55550	55858	56267
30°	49125	49552	49985
35°	42522	43205	43547
40°	36134	36865	36983
45°	29952	31005	30609
50°	24275	25581	24998
55°	19269	21056	19592
60°	13743	17274	13743
65°	9016	13183	9230
70°	5980	8145	6244
75°	2878	3593	2878
80°	0	545	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.5	6.6
10°-20°	420.0	17.5
20°-30°	539.1	22.5
30°-40°	512.4	21.3
40°-50°	391.2	16.3
50°-60°	244.5	10.2
60°-70°	109.2	4.5
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°	1118.6	46.6
0°-40°	1631.0	68.0
0°-60°	2266.7	94.4
0°-90°	2400.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2400.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1724	1724	1724	1724	1724	
5°	1696	1696	1696	1698	1698	159
15°	1495	1497	1502	1506	1508	418
25°	1169	1172	1176	1180	1184	535
35°	809	818	822	824	828	506
45°	492	503	509	511	503	381
55°	257	272	280	276	261	230
65°	88	101	129	104	91	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°	1723.8	1723.8	1723.8	1723.8	1723.8
2.5°	1715.2	1715.2	1715.2	1715.2	1715.2
5°	1695.7	1695.7	1695.7	1697.9	1697.9
7.5°	1663.4	1663.4	1663.4	1665.5	1663.4
10°	1620.2	1620.2	1622.4	1622.4	1622.4
12.5°	1562.0	1564.1	1566.3	1568.4	1570.6
15°	1495.1	1497.3	1501.6	1505.9	1508.0
17.5°	1421.7	1421.7	1430.4	1436.8	1436.8
20°	1341.9	1344.1	1350.5	1352.7	1357.0
22.5°	1253.5	1259.9	1266.4	1268.6	1270.7
25°	1169.3	1171.5	1175.8	1180.1	1184.4
27.5°	1078.7	1080.9	1087.3	1089.5	1098.1
30°	988.1	992.4	996.7	1001.0	1005.4
32.5°	897.5	901.8	908.3	910.4	914.7
35°	809.0	817.7	822.0	824.1	828.5
37.5°	724.9	733.5	735.7	742.2	742.2
40°	642.9	651.5	655.9	660.2	658.0
42.5°	563.1	573.9	578.2	584.7	578.2
45°	491.9	502.7	509.2	511.3	502.7
47.5°	425.0	438.0	440.1	442.3	438.0
50°	362.4	375.4	381.9	384.0	373.2
52.5°	310.7	321.5	327.9	325.8	317.1
55°	256.7	271.8	280.5	276.2	261.0
57.5°	207.1	224.4	237.3	226.5	211.4
60°	159.6	179.1	200.6	183.4	159.6
62.5°	118.7	138.1	166.1	138.1	118.7
65°	88.5	101.4	129.4	103.6	90.6
67.5°	64.7	75.5	97.1	75.5	66.9
70°	47.5	56.1	64.7	56.1	49.6
72.5°	32.4	38.8	38.8	38.8	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)