

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: P238040

Luminaire Tested: **PRS620D010-S6M12-64SNDH-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS620D010-S6M12-64SNDH-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2354.5 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.85
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

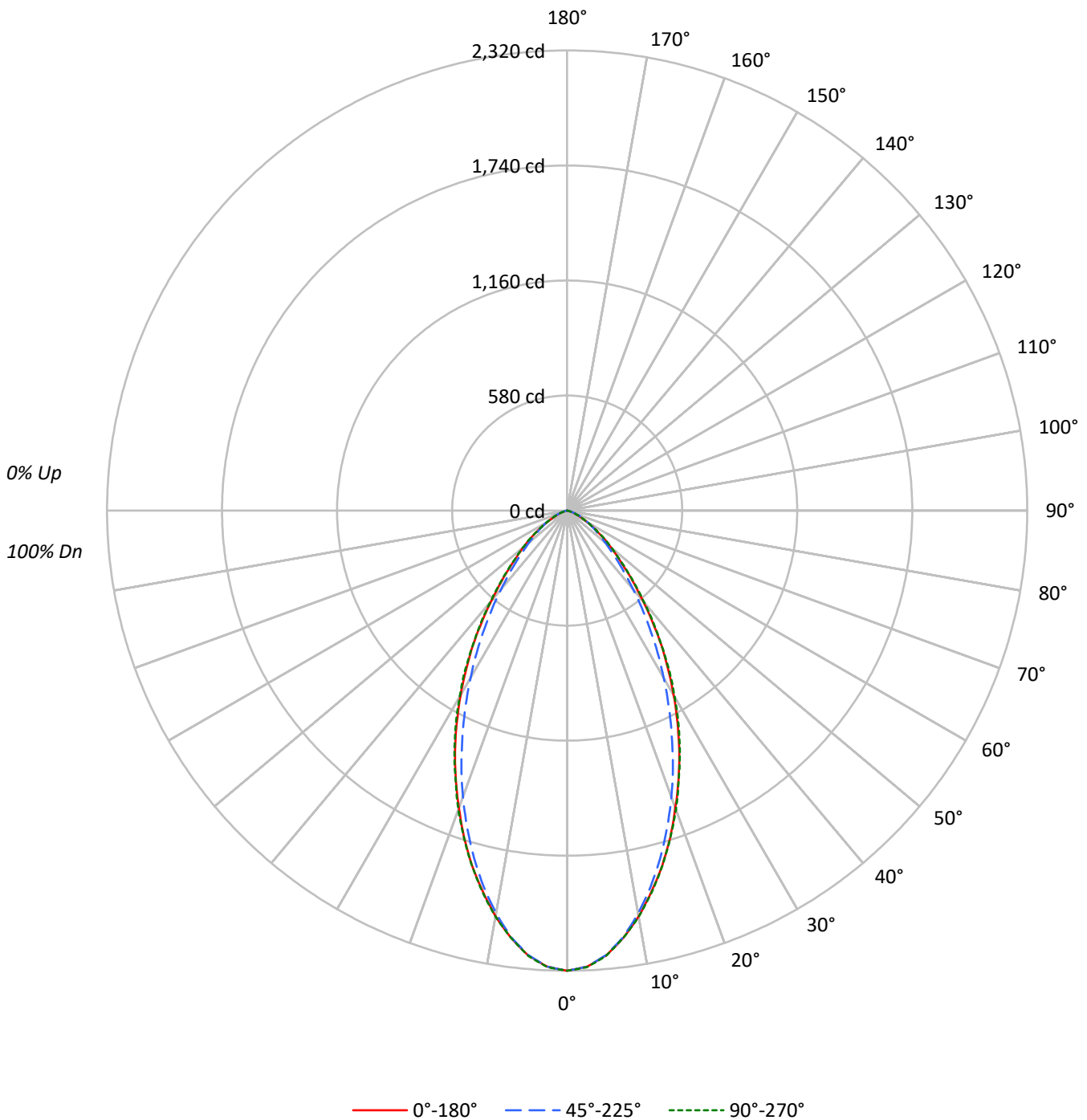
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83					83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75					75			
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68					68			
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62					62			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	56	76	66	60	55	65	59	55	64	59	55	63	58	54	53					53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	51	47	46					46			
10	66	55	49	44	65	55	49	44	54	48	44	53	48	44	52	47	44	43					43			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	99893	99893	99893
5°	97310	97219	97401
10°	90802	90163	90894
15°	82570	80809	82659
20°	73063	70396	73539
25°	63507	59260	63901
30°	53435	48374	53848
35°	43489	38138	43600
40°	33420	29097	33886
45°	25190	21902	25696
50°	19217	16712	19633
55°	14360	13106	14360
60°	10023	10566	10204
65°	6775	8048	6989
70°	4708	5237	4444
75°	2079	2429	2079
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.1	8.9
10°-20°	510.7	21.7
20°-30°	590.8	25.1
30°-40°	483.6	20.5
40°-50°	302.5	12.8
50°-60°	166.4	7.1
60°-70°	74.2	3.2
70°-80°	17.0	0.7
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°	1310.7	55.7
0°-40°	1794.3	76.2
0°-60°	2263.2	96.1
0°-90°	2354.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2354.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2320	2320	2320	2320	2320	
5°	2252	2249	2249	2254	2254	209
15°	1852	1832	1813	1836	1854	516
25°	1337	1285	1247	1291	1345	611
35°	827	765	726	771	830	514
45°	414	378	360	385	422	325
55°	191	183	175	187	191	173
65°	66	73	79	73	69	70
75°	12	15	15	15	12	15
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°	2320.1	2320.1	2320.1	2320.1	2320.1
2.5°	2301.4	2303.5	2301.4	2303.5	2303.5
5°	2251.5	2249.4	2249.4	2253.6	2253.6
7.5°	2172.5	2170.4	2168.4	2172.5	2172.5
10°	2076.9	2072.7	2062.3	2074.8	2079.0
12.5°	1966.7	1958.4	1943.8	1958.4	1970.9
15°	1852.4	1831.6	1812.9	1835.7	1854.4
17.5°	1727.6	1700.6	1675.6	1698.5	1729.7
20°	1594.6	1563.4	1536.4	1565.5	1605.0
22.5°	1467.7	1424.1	1392.9	1428.2	1469.8
25°	1336.8	1284.8	1247.4	1291.0	1345.1
27.5°	1203.7	1147.6	1108.1	1155.9	1216.2
30°	1074.8	1014.5	973.0	1024.9	1083.1
32.5°	945.9	889.8	848.2	898.1	960.5
35°	827.4	765.1	725.6	771.3	829.5
37.5°	704.8	648.6	617.5	657.0	715.2
40°	594.6	544.7	517.7	553.0	602.9
42.5°	499.0	455.3	432.4	459.5	509.3
45°	413.7	378.4	359.7	384.6	422.0
47.5°	343.0	316.0	297.3	320.2	349.3
50°	286.9	261.9	249.5	266.1	293.1
52.5°	237.0	220.4	205.8	222.4	243.2
55°	191.3	182.9	174.6	187.1	191.3
57.5°	149.7	147.6	145.5	149.7	151.8
60°	116.4	118.5	122.7	118.5	118.5
62.5°	89.4	93.6	101.9	93.6	91.5
65°	66.5	72.8	79.0	72.8	68.6
67.5°	49.9	54.1	58.2	54.1	49.9
70°	37.4	39.5	41.6	39.5	35.3
72.5°	22.9	27.0	27.0	27.0	22.9
75°	12.5	14.6	14.6	14.6	12.5
77.5°	2.1	6.2	6.2	6.2	2.1
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)