

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: P238050

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238050
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-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW 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: 2445.4 lumens
Efficiency: N/A
Efficacy: 122.3 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

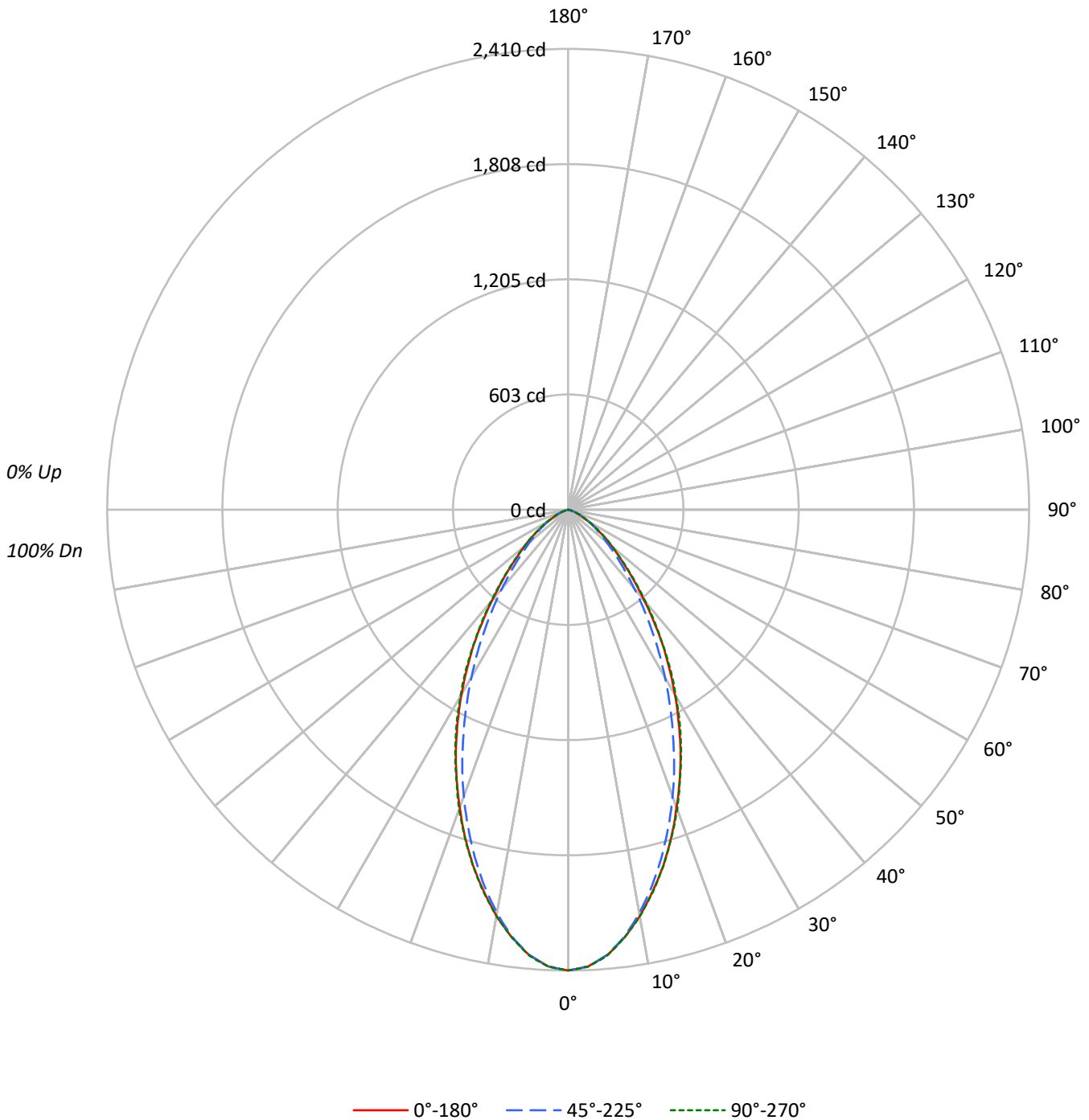
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	103756	103756	103756
5°	101070	100975	101165
10°	94308	93648	94404
15°	85757	83929	85855
20°	75885	73113	76380
25°	65958	61550	66372
30°	55498	50238	55931
35°	45171	39610	45287
40°	34712	30222	35196
45°	26164	22748	26688
50°	19961	17355	20396
55°	14915	13617	14915
60°	10411	10971	10600
65°	7040	8364	7264
70°	4897	5438	4620
75°	2163	2512	2163
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.2	8.9
10°-20°	530.5	21.7
20°-30°	613.6	25.1
30°-40°	502.3	20.5
40°-50°	314.2	12.8
50°-60°	172.9	7.1
60°-70°	77.1	3.2
70°-80°	17.7	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°	1361.3	55.7
0°-40°	1863.6	76.2
0°-60°	2350.7	96.1
0°-90°	2445.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2445.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2410	2410	2410	2410	2410	
5°	2338	2336	2336	2341	2341	217
15°	1924	1902	1883	1907	1926	536
25°	1388	1334	1296	1341	1397	635
35°	859	795	754	801	862	534
45°	430	393	374	400	438	338
55°	199	190	181	194	199	180
65°	69	76	82	76	71	72
75°	13	15	15	15	13	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°	2409.8	2409.8	2409.8	2409.8	2409.8
2.5°	2390.3	2392.5	2390.3	2392.5	2392.5
5°	2338.5	2336.3	2336.3	2340.7	2340.7
7.5°	2256.4	2254.3	2252.1	2256.4	2256.4
10°	2157.1	2152.8	2142.0	2155.0	2159.3
12.5°	2042.7	2034.0	2018.9	2034.0	2047.0
15°	1923.9	1902.3	1882.9	1906.6	1926.1
17.5°	1794.4	1766.3	1740.4	1764.1	1796.5
20°	1656.2	1623.8	1595.7	1625.9	1667.0
22.5°	1524.5	1479.1	1446.7	1483.4	1526.6
25°	1388.4	1334.4	1295.6	1340.9	1397.1
27.5°	1250.2	1191.9	1150.9	1200.6	1263.2
30°	1116.3	1053.7	1010.5	1064.5	1125.0
32.5°	982.5	924.2	881.0	932.8	997.6
35°	859.4	794.6	753.6	801.1	861.6
37.5°	732.0	673.7	641.3	682.3	742.8
40°	617.6	565.7	537.7	574.4	626.2
42.5°	518.2	472.9	449.1	477.2	529.0
45°	429.7	393.0	373.6	399.5	438.3
47.5°	356.3	328.2	308.8	332.5	362.8
50°	298.0	272.1	259.1	276.4	304.5
52.5°	246.2	228.9	213.8	231.0	252.6
55°	198.7	190.0	181.4	194.3	198.7
57.5°	155.5	153.3	151.1	155.5	157.6
60°	120.9	123.1	127.4	123.1	123.1
62.5°	92.8	97.2	105.8	97.2	95.0
65°	69.1	75.6	82.1	75.6	71.3
67.5°	51.8	56.1	60.5	56.1	51.8
70°	38.9	41.0	43.2	41.0	36.7
72.5°	23.8	28.1	28.1	28.1	23.8
75°	13.0	15.1	15.1	15.1	13.0
77.5°	2.2	6.5	6.5	6.5	2.2
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)