

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: P238090

Luminaire Tested: **PRS620D010-S6M12-64SNDC**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238090
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-10)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS620D010-S6M12-64SNDC
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

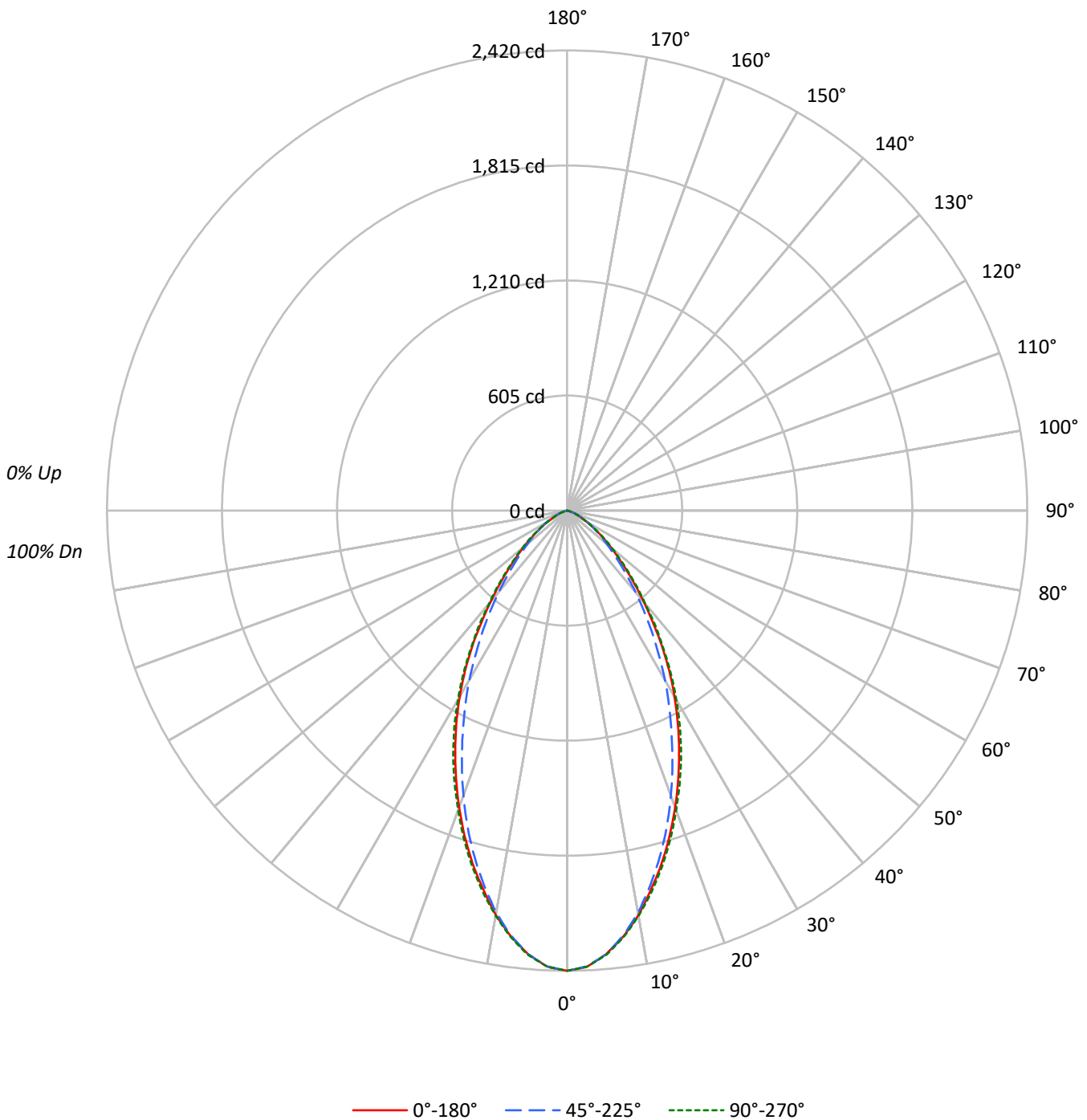
Lumens per Lamp: N/A
Luminaire Lumens: 2470.2 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.86
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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	84	83					83			
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75					75			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68					68			
5	88	78	71	66	86	77	70	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	55	76	66	60	55	65	59	55	64	59	55	63	58	54	53					53			
8	73	63	56	51	72	62	56	51	61	55	51	60	54	51	59	54	50	49					49			
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45					45			
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	104212	104212	104212
5°	101230	101230	101420
10°	94431	93862	94619
15°	85632	83987	86212
20°	76087	73104	76783
25°	66106	61773	67341
30°	56120	51153	57089
35°	45639	40619	46212
40°	35258	31357	35870
45°	26566	23662	27492
50°	20068	18032	20791
55°	14503	14015	14991
60°	10282	11212	10471
65°	7081	8181	7081
70°	4645	5463	4645
75°	2163	2529	2163
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.7	8.8
10°-20°	531.1	21.5
20°-30°	617.8	25.0
30°-40°	511.1	20.7
40°-50°	322.4	13.1
50°-60°	175.4	7.1
60°-70°	77.1	3.1
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°	1366.6	55.3
0°-40°	1877.6	76.0
0°-60°	2375.5	96.2
0°-90°	2470.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2470.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2420	2420	2420	2420	2420	
5°	2342	2344	2342	2344	2347	218
15°	1921	1899	1884	1910	1934	536
25°	1392	1337	1300	1354	1418	638
35°	868	803	773	816	879	541
45°	436	402	389	408	452	342
55°	193	191	187	195	200	178
65°	70	76	80	76	70	72
75°	13	15	15	17	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°	2420.4	2420.4	2420.4	2420.4	2420.4
2.5°	2400.8	2398.7	2398.7	2400.8	2400.8
5°	2342.2	2344.4	2342.2	2344.4	2346.6
7.5°	2259.8	2257.6	2255.4	2261.9	2264.1
10°	2159.9	2153.4	2146.9	2157.7	2164.2
12.5°	2040.5	2029.7	2018.8	2036.2	2053.5
15°	1921.1	1899.4	1884.2	1910.3	1934.1
17.5°	1793.0	1764.8	1743.1	1773.5	1808.2
20°	1660.6	1623.7	1595.5	1632.4	1675.8
22.5°	1526.0	1480.5	1445.7	1493.5	1547.7
25°	1391.5	1337.2	1300.3	1354.5	1417.5
27.5°	1261.2	1198.3	1161.4	1213.4	1285.1
30°	1128.8	1063.7	1028.9	1081.0	1148.3
32.5°	998.5	933.4	894.3	946.4	1015.9
35°	868.3	803.2	772.8	816.2	879.2
37.5°	738.1	683.8	659.9	696.8	759.8
40°	627.3	577.4	557.9	586.1	638.2
42.5°	525.3	479.7	464.5	492.8	542.7
45°	436.3	401.6	388.6	408.1	451.5
47.5°	360.3	334.3	323.4	343.0	373.4
50°	299.6	280.0	269.2	284.4	310.4
52.5°	245.3	232.3	223.6	236.6	254.0
55°	193.2	191.0	186.7	195.4	199.7
57.5°	154.1	154.1	156.3	156.3	156.3
60°	119.4	123.7	130.2	125.9	121.6
62.5°	91.2	97.7	104.2	97.7	93.3
65°	69.5	76.0	80.3	76.0	69.5
67.5°	52.1	56.4	60.8	56.4	52.1
70°	36.9	41.2	43.4	41.2	36.9
72.5°	23.9	28.2	28.2	28.2	23.9
75°	13.0	15.2	15.2	17.4	13.0
77.5°	2.2	4.3	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)