

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: P238092

Luminaire Tested: **PRS640D010-S6M24-64SNDC**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238092
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: PRS640D010-S6M24-64SNDC
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

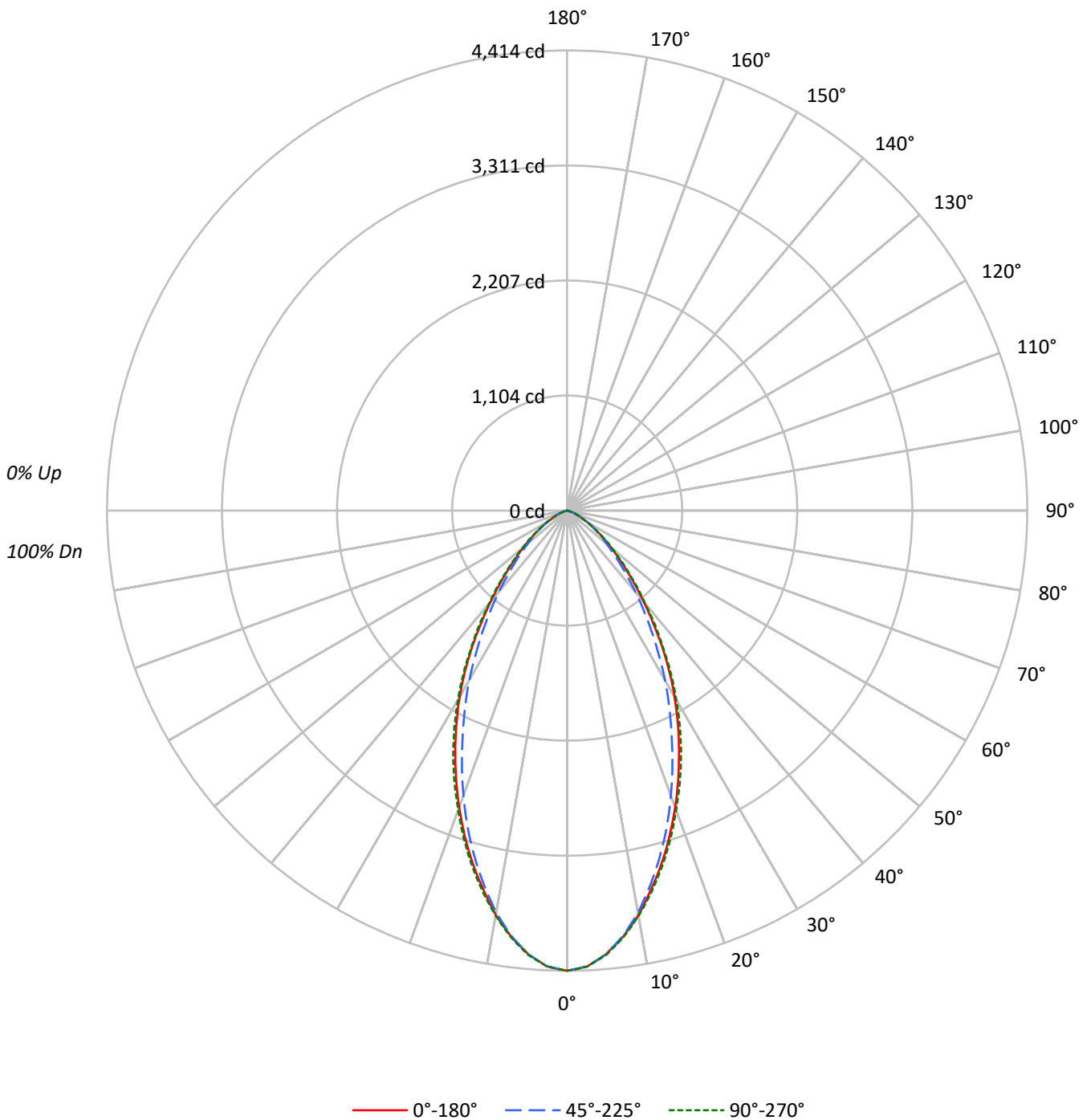
Lumens per Lamp: N/A
Luminaire Lumens: 4505.1 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.86
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 38
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°	190052	190052	190052
5°	184619	184619	184961
10°	172217	171176	172562
15°	156171	153171	157228
20°	138762	133324	140032
25°	120553	112653	122809
30°	102346	93293	104116
35°	83231	74075	84271
40°	64304	57183	65417
45°	48450	43147	50137
50°	36593	32882	37919
55°	26445	25560	27339
60°	18746	20451	19091
65°	12908	14925	12908
70°	8472	9970	8472
75°	3959	4608	3959
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.0	8.8
10°-20°	968.6	21.5
20°-30°	1126.7	25.0
30°-40°	932.0	20.7
40°-50°	588.0	13.1
50°-60°	319.9	7.1
60°-70°	140.6	3.1
70°-80°	32.3	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°	2492.3	55.3
0°-40°	3424.3	76.0
0°-60°	4332.2	96.2
0°-90°	4505.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4505.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4414	4414	4414	4414	4414	
5°	4272	4276	4272	4276	4280	397
15°	3504	3464	3436	3484	3527	978
25°	2538	2439	2371	2470	2585	1163
35°	1584	1465	1409	1488	1603	986
45°	796	732	709	744	823	624
55°	352	348	340	356	364	325
65°	127	139	146	139	127	131
75°	24	28	28	32	24	27
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°	4414.1	4414.1	4414.1	4414.1	4414.1
2.5°	4378.5	4374.5	4374.5	4378.5	4378.5
5°	4271.6	4275.6	4271.6	4275.6	4279.5
7.5°	4121.2	4117.2	4113.2	4125.1	4129.1
10°	3939.1	3927.2	3915.3	3935.1	3947.0
12.5°	3721.3	3701.5	3681.7	3713.4	3745.1
15°	3503.6	3464.0	3436.3	3483.8	3527.3
17.5°	3270.0	3218.5	3179.0	3234.4	3297.7
20°	3028.5	2961.2	2909.8	2977.1	3056.2
22.5°	2783.1	2699.9	2636.6	2723.7	2822.7
25°	2537.6	2438.6	2371.3	2470.3	2585.1
27.5°	2300.1	2185.3	2118.0	2213.0	2343.6
30°	2058.6	1939.8	1876.5	1971.5	2094.2
32.5°	1821.1	1702.3	1631.0	1726.1	1852.7
35°	1583.5	1464.8	1409.3	1488.5	1603.3
37.5°	1346.0	1247.0	1203.5	1270.8	1385.6
40°	1144.1	1053.1	1017.4	1068.9	1163.9
42.5°	958.0	874.9	847.2	898.7	989.7
45°	795.7	732.4	708.6	744.3	823.4
47.5°	657.2	609.7	589.9	625.5	680.9
50°	546.3	510.7	490.9	518.6	566.1
52.5°	447.3	423.6	407.8	431.5	463.2
55°	352.3	348.4	340.5	356.3	364.2
57.5°	281.1	281.1	285.0	285.0	285.0
60°	217.7	225.7	237.5	229.6	221.7
62.5°	166.3	178.1	190.0	178.1	170.2
65°	126.7	138.6	146.5	138.6	126.7
67.5°	95.0	102.9	110.8	102.9	95.0
70°	67.3	75.2	79.2	75.2	67.3
72.5°	43.5	51.5	51.5	51.5	43.5
75°	23.8	27.7	27.7	31.7	23.8
77.5°	4.0	7.9	11.9	11.9	4.0
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)