

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: P238242

Luminaire Tested: **PRS640D010-S6M24-61SMDH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-20)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-61SMDH
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4133.0 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

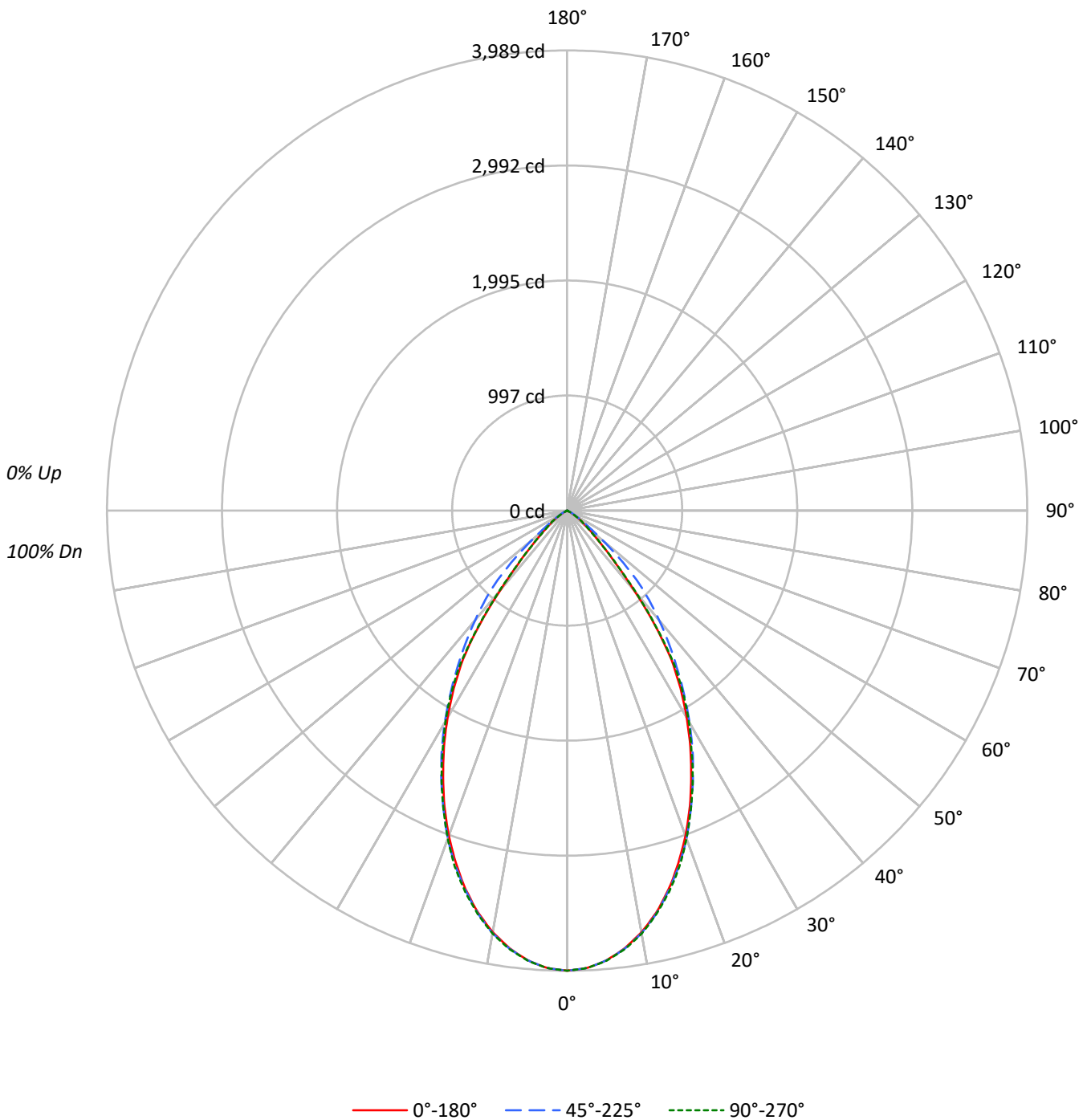
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	96	94	93		
1	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	91	89	87	85	85		
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	82	80	78	78	78		
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78	78	75	73	72	72	72		
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72	72	69	68	68	66	66		
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	63	63	61	61	61		
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61	61	58	58	57	57	57		
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57	57	54	54	52	52	52		
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52	52	50	50	49	49	49		
9	72	62	55	51	71	61	55	51	60	55	51	59	54	50	58	54	50	49	49	47	47	46	46	46		
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46	46	44	44	43	43	43		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	171740	171740	171740
5°	169146	169146	169319
10°	162279	162625	162800
15°	151518	151870	152400
20°	137434	138703	138703
25°	120876	122572	122382
30°	103087	105448	104862
35°	82779	86942	84445
40°	50489	69616	52046
45°	26743	51805	26986
50°	15373	26773	15373
55°	9503	11583	9503
60°	3410	5451	3410
65°	805	2017	805
70°	504	504	504
75°	665	665	665
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.5	8.9
10°-20°	951.8	23.0
20°-30°	1174.8	28.4
30°-40°	1003.3	24.3
40°-50°	480.2	11.6
50°-60°	135.0	3.3
60°-70°	17.6	0.4
70°-80°	2.6	0.1
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°	2494.2	60.3
0°-40°	3497.5	84.6
0°-60°	4112.7	99.5
0°-90°	4133.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4133.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3989	3989	3989	3989	3989	
5°	3914	3918	3914	3918	3918	367
15°	3399	3403	3407	3419	3419	948
25°	2544	2556	2580	2580	2576	1164
35°	1575	1634	1654	1654	1607	949
45°	439	546	851	550	443	369
55°	127	146	154	142	127	114
65°	8	8	20	8	8	12
75°	4	4	4	4	4	3
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°	3988.8	3988.8	3988.8	3988.8	3988.8
2.5°	3969.0	3969.0	3969.0	3969.0	3969.0
5°	3913.6	3917.6	3913.6	3917.6	3917.6
7.5°	3826.6	3830.5	3830.5	3834.5	3834.5
10°	3711.8	3715.8	3719.7	3719.7	3723.7
12.5°	3569.3	3569.3	3577.3	3581.2	3581.2
15°	3399.2	3403.1	3407.1	3419.0	3419.0
17.5°	3205.3	3213.2	3225.1	3229.0	3236.9
20°	2999.5	2999.5	3027.2	3023.3	3027.2
22.5°	2777.9	2789.8	2801.7	2809.6	2801.7
25°	2544.4	2556.3	2580.1	2580.1	2576.1
27.5°	2311.0	2322.8	2354.5	2342.6	2334.7
30°	2073.5	2085.4	2121.0	2101.2	2109.2
32.5°	1828.2	1863.8	1883.6	1883.6	1863.8
35°	1574.9	1634.3	1654.1	1654.1	1606.6
37.5°	1246.5	1389.0	1444.4	1400.8	1262.3
40°	898.3	1084.3	1238.6	1104.0	926.0
42.5°	629.2	787.5	1048.6	799.3	637.1
45°	439.2	546.1	850.8	550.0	443.2
47.5°	308.7	379.9	617.3	379.9	308.7
50°	229.5	269.1	399.7	265.1	229.5
52.5°	174.1	197.9	245.3	193.9	174.1
55°	126.6	146.4	154.3	142.5	126.6
57.5°	79.1	98.9	98.9	98.9	75.2
60°	39.6	55.4	63.3	55.4	39.6
62.5°	11.9	23.7	39.6	23.7	11.9
65°	7.9	7.9	19.8	7.9	7.9
67.5°	7.9	7.9	7.9	7.9	7.9
70°	4.0	4.0	4.0	4.0	4.0
72.5°	4.0	4.0	4.0	4.0	4.0
75°	4.0	4.0	4.0	4.0	4.0
77.5°	0.0	0.0	0.0	0.0	0.0
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)