

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: P238282

Luminaire Tested: **PRS640D010-S6M24-61SMDC-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-23)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-61SMDC-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3811.2 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.87 / 0.9
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

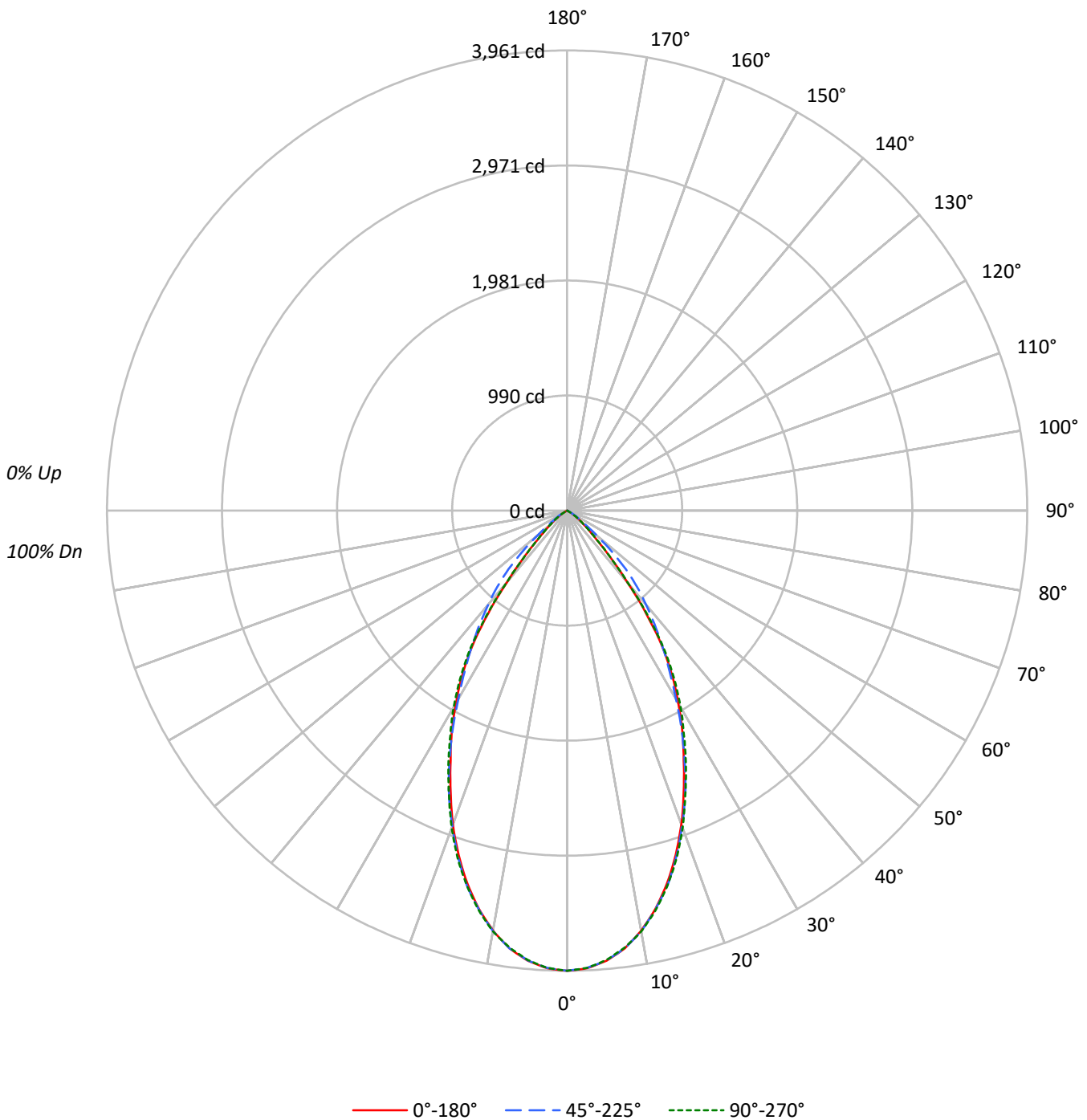
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93					93			
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86					86			
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79					79			
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	81	77	74	73					73			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67					67			
6	86	76	70	65	84	75	69	65	74	69	65	72	68	64	71	67	64	62					62			
7	81	71	65	60	80	71	65	60	69	64	60	68	63	60	67	63	59	58					58			
8	77	67	60	56	76	66	60	56	65	60	56	64	59	55	63	59	55	54					54			
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50					50			
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47					47			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	170561	170561	170561
5°	168126	167971	167819
10°	160544	160701	160858
15°	148076	148874	148874
20°	131752	132407	133228
25°	112847	113869	114885
30°	95187	93059	97141
35°	74916	75289	76603
40°	45577	59229	46381
45°	23053	43500	23491
50°	12680	22011	12680
55°	6974	9120	7236
60°	1843	3996	1843
65°	0	1457	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.3	9.6
10°-20°	928.6	24.4
20°-30°	1096.5	28.8
30°-40°	895.1	23.5
40°-50°	410.9	10.8
50°-60°	106.8	2.8
60°-70°	9.0	0.2
70°-80°	0.0	0.0
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°	2389.4	62.7
0°-40°	3284.5	86.2
0°-60°	3802.2	99.8
0°-90°	3811.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3811.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3961	3961	3961	3961	3961	
5°	3890	3890	3886	3886	3883	364
15°	3322	3329	3340	3344	3340	925
25°	2375	2372	2397	2411	2418	1091
35°	1425	1465	1432	1486	1457	864
45°	379	468	714	472	386	324
55°	93	114	122	114	96	87
65°	0	0	14	0	0	3
75°	0	0	0	0	0	0
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°	3961.4	3961.4	3961.4	3961.4	3961.4
2.5°	3943.6	3943.6	3940.0	3940.0	3940.0
5°	3890.0	3890.0	3886.4	3886.4	3882.9
7.5°	3800.7	3800.7	3800.7	3797.1	3793.6
10°	3672.1	3672.1	3675.7	3675.7	3679.3
12.5°	3511.4	3514.9	3514.9	3522.1	3522.1
15°	3322.0	3329.2	3339.9	3343.5	3339.9
17.5°	3107.7	3114.9	3125.6	3139.9	3136.3
20°	2875.5	2879.1	2889.8	2911.3	2907.7
22.5°	2621.9	2629.1	2657.6	2664.8	2657.6
25°	2375.4	2371.9	2396.9	2411.2	2418.3
27.5°	2150.4	2132.5	2136.1	2157.5	2179.0
30°	1914.6	1907.5	1871.8	1928.9	1953.9
32.5°	1682.5	1686.0	1639.6	1700.3	1714.6
35°	1425.3	1464.6	1432.4	1486.0	1457.4
37.5°	1118.1	1225.2	1235.9	1243.1	1146.6
40°	810.9	950.2	1053.8	957.3	825.2
42.5°	564.4	678.7	889.5	693.0	560.8
45°	378.6	467.9	714.4	471.5	385.8
47.5°	264.3	314.3	518.0	317.9	264.3
50°	189.3	217.9	328.6	221.5	189.3
52.5°	139.3	157.2	200.0	157.2	139.3
55°	92.9	114.3	121.5	114.3	96.4
57.5°	57.2	75.0	78.6	75.0	53.6
60°	21.4	39.3	46.4	39.3	21.4
62.5°	3.6	10.7	28.6	14.3	3.6
65°	0.0	0.0	14.3	0.0	0.0
67.5°	0.0	0.0	3.6	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
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)