

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: P238272

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-22)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-61SNDC
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

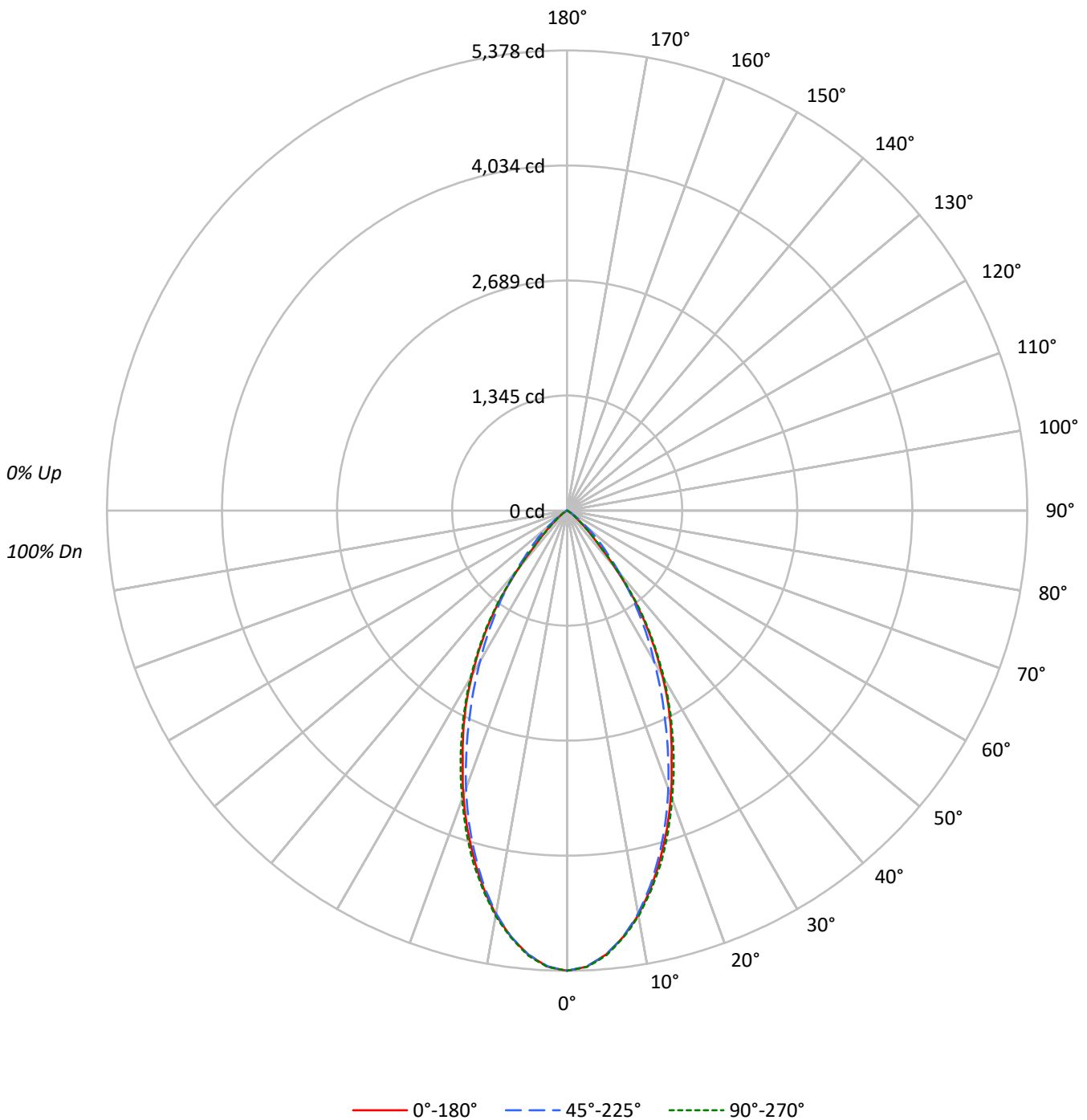
Lumens per Lamp: N/A
Luminaire Lumens: 4354.6 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.8 / 0.81
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92		95	92	90		92	90	88	87
3	102	96	91	86	100	94	90	86	92	88	84		89	86	83		87	84	82	80
4	97	89	83	79	95	88	83	79	86	81	78		84	80	77		82	79	76	74
5	92	83	77	73	90	82	77	73	80	76	72		79	75	71		77	74	71	69
6	87	78	72	67	86	77	71	67	76	71	67		74	70	66		73	69	66	64
7	83	73	67	63	81	72	67	63	71	66	62		70	65	62		69	65	62	60
8	79	69	63	59	77	68	62	58	67	62	58		66	61	58		65	61	58	56
9	75	65	59	55	74	64	59	55	63	58	55		63	58	54		62	57	54	53
10	71	61	55	52	70	61	55	51	60	55	51		59	55	51		59	54	51	50

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	231532	231532	231532
5°	225064	225064	225574
10°	209672	208981	210367
15°	187668	185550	189433
20°	162446	158277	164261
25°	136662	128767	138544
30°	110559	100919	112528
35°	82363	76329	84440
40°	49371	53378	49595
45°	22889	34452	23132
50°	11133	19351	11133
55°	5938	8017	5938
60°	2041	3410	2041
65°	0	1212	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°	484.1	11.1
10°-20°	1166.1	26.8
20°-30°	1281.7	29.4
30°-40°	940.6	21.6
40°-50°	382.4	8.8
50°-60°	91.9	2.1
60°-70°	7.9	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°	2931.8	67.3
0°-40°	3872.4	88.9
0°-60°	4346.7	99.8
0°-90°	4354.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4354.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5378	5378	5378	5378	5378	
5°	5207	5211	5207	5219	5219	484
15°	4210	4194	4163	4202	4250	1171
25°	2877	2774	2710	2813	2916	1314
35°	1567	1492	1452	1520	1606	964
45°	376	447	566	455	380	326
55°	79	95	107	95	79	74
65°	0	0	12	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°	5377.5	5377.5	5377.5	5377.5	5377.5
2.5°	5334.0	5334.0	5330.0	5334.0	5337.9
5°	5207.4	5211.3	5207.4	5219.2	5219.2
7.5°	5025.3	5017.4	5021.4	5037.2	5033.3
10°	4795.8	4784.0	4780.0	4795.8	4811.7
12.5°	4518.9	4499.1	4491.2	4514.9	4538.6
15°	4210.2	4194.4	4162.7	4202.3	4249.8
17.5°	3885.7	3854.1	3818.5	3869.9	3925.3
20°	3545.4	3490.0	3454.4	3517.7	3585.0
22.5°	3189.3	3130.0	3082.5	3169.5	3252.6
25°	2876.7	2773.8	2710.5	2813.4	2916.3
27.5°	2556.2	2445.4	2370.2	2477.1	2587.9
30°	2223.8	2113.0	2029.9	2152.6	2263.4
32.5°	1895.4	1796.5	1741.1	1828.1	1923.1
35°	1567.0	1491.8	1452.2	1519.5	1606.5
37.5°	1230.6	1206.9	1195.0	1226.7	1266.2
40°	878.4	937.8	949.7	953.6	882.4
42.5°	581.7	664.8	732.0	676.6	589.6
45°	375.9	447.1	565.8	455.1	379.9
47.5°	241.4	296.8	423.4	300.7	245.3
50°	166.2	197.8	288.9	197.8	166.2
52.5°	114.8	134.5	182.0	134.5	118.7
55°	79.1	95.0	106.8	95.0	79.1
57.5°	47.5	59.4	63.3	59.4	47.5
60°	23.7	35.6	39.6	35.6	23.7
62.5°	0.0	11.9	23.7	11.9	0.0
65°	0.0	0.0	11.9	0.0	0.0
67.5°	0.0	0.0	4.0	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)