

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: P238273

Luminaire Tested: **PRS610D010-S6M12-61SNDC-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238273
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: PRS610D010-S6M12-61SNDC-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1093.7 lumens
Efficiency: N/A
Efficacy: 109.4 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

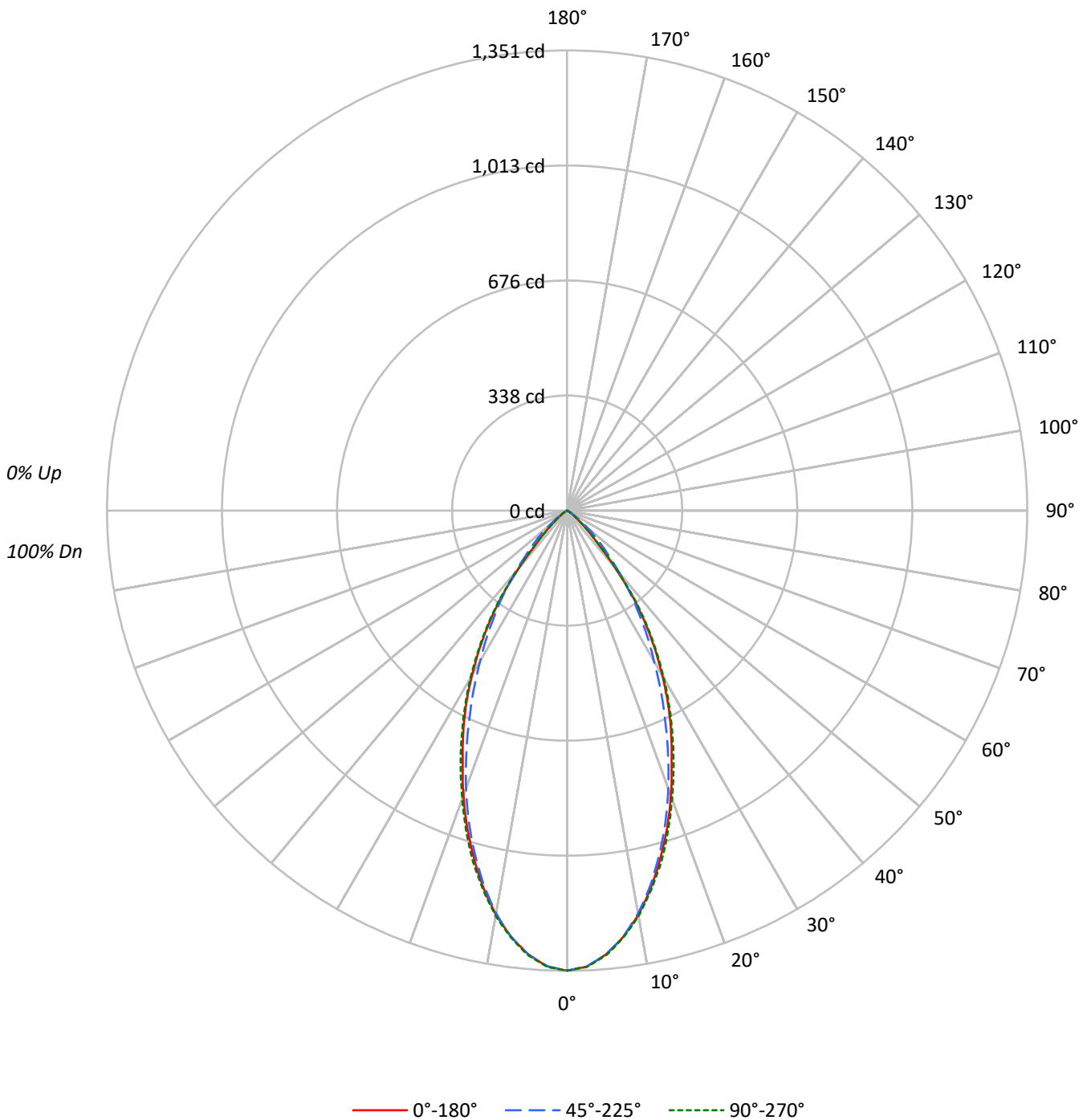
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	58155	58155	58155
5°	56528	56528	56657
10°	52665	52490	52835
15°	47138	46603	47579
20°	40802	39752	41255
25°	34324	32343	34799
30°	27772	25350	28264
35°	20688	19169	21208
40°	12399	13405	12455
45°	5748	8652	5809
50°	2793	4863	2793
55°	1494	2012	1494
60°	517	853	517
65°	0	306	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°	121.6	11.1
10°-20°	292.9	26.8
20°-30°	321.9	29.4
30°-40°	236.3	21.6
40°-50°	96.0	8.8
50°-60°	23.1	2.1
60°-70°	2.0	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°	736.4	67.3
0°-40°	972.6	88.9
0°-60°	1091.7	99.8
0°-90°	1093.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1093.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1351	1351	1351	1351	1351	
5°	1308	1309	1308	1311	1311	122
15°	1058	1054	1046	1056	1067	294
25°	722	697	681	707	732	330
35°	394	375	365	382	404	242
45°	94	112	142	114	95	82
55°	20	24	27	24	20	19
65°	0	0	3	0	0	1
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°	1350.7	1350.7	1350.7	1350.7	1350.7
2.5°	1339.7	1339.7	1338.7	1339.7	1340.7
5°	1307.9	1308.9	1307.9	1310.9	1310.9
7.5°	1262.2	1260.2	1261.2	1265.2	1264.2
10°	1204.6	1201.6	1200.6	1204.6	1208.5
12.5°	1135.0	1130.0	1128.0	1134.0	1140.0
15°	1057.5	1053.5	1045.5	1055.5	1067.4
17.5°	976.0	968.0	959.1	972.0	985.9
20°	890.5	876.6	867.6	883.5	900.4
22.5°	801.1	786.1	774.2	796.1	817.0
25°	722.5	696.7	680.8	706.6	732.5
27.5°	642.0	614.2	595.3	622.2	650.0
30°	558.6	530.7	509.9	540.7	568.5
32.5°	476.1	451.2	437.3	459.2	483.0
35°	393.6	374.7	364.7	381.6	403.5
37.5°	309.1	303.1	300.1	308.1	318.0
40°	220.6	235.5	238.5	239.5	221.6
42.5°	146.1	167.0	183.9	170.0	148.1
45°	94.4	112.3	142.1	114.3	95.4
47.5°	60.6	74.5	106.3	75.5	61.6
50°	41.7	49.7	72.6	49.7	41.7
52.5°	28.8	33.8	45.7	33.8	29.8
55°	19.9	23.9	26.8	23.9	19.9
57.5°	11.9	14.9	15.9	14.9	11.9
60°	6.0	8.9	9.9	8.9	6.0
62.5°	0.0	3.0	6.0	3.0	0.0
65°	0.0	0.0	3.0	0.0	0.0
67.5°	0.0	0.0	1.0	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)