

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: P238174

Luminaire Tested: **PRS615D010-S6M12-61SNDMW-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-16)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS615D010-S6M12-61SNDMW-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1405.9 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.87
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

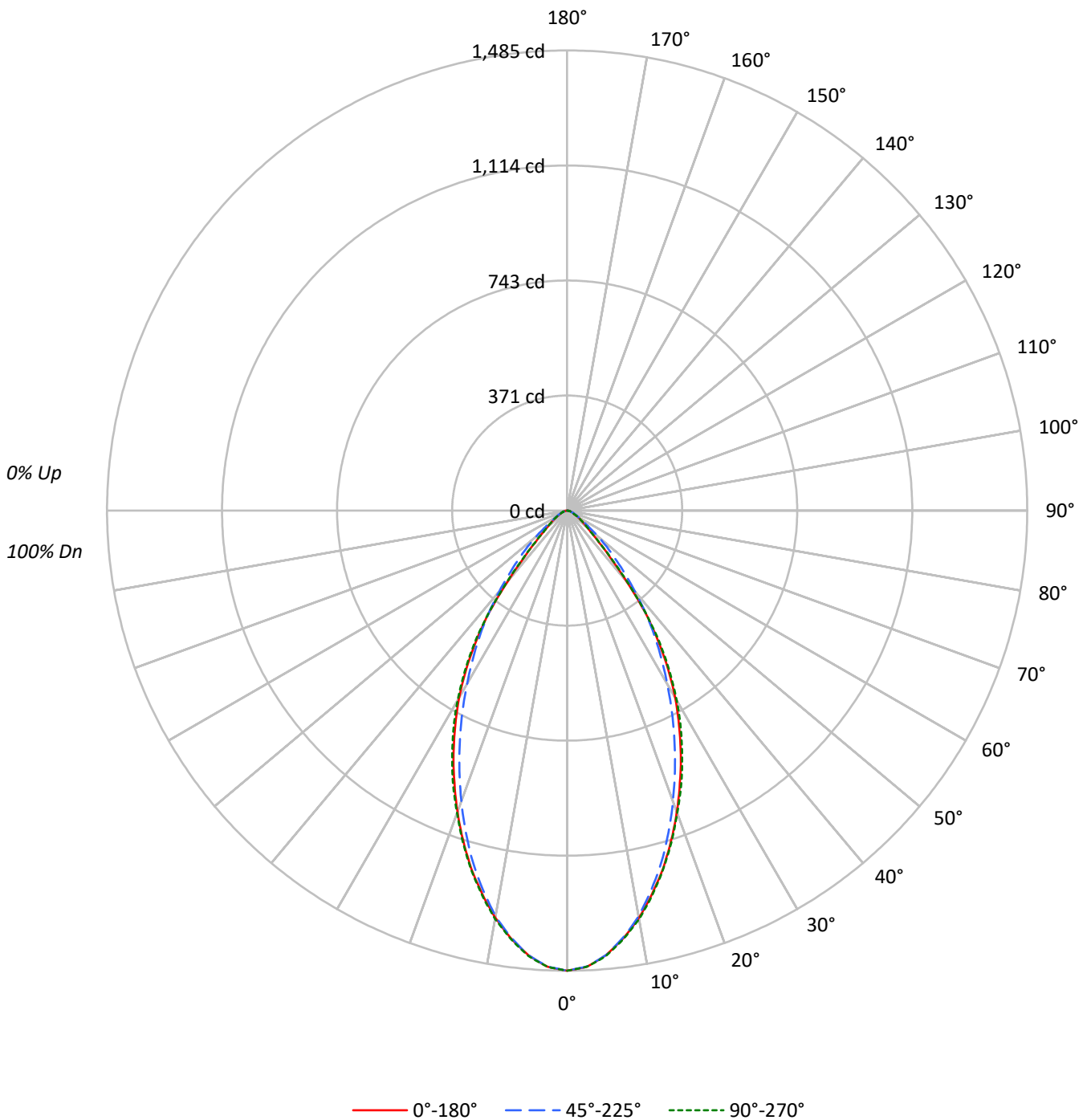
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94					92				
2	106	101	96	93	104	99	95	92	96	93	90	93	90	88	90	88	86					84				
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79					77				
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72					71				
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67					65				
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62					60				
7	80	70	63	59	78	69	63	58	68	62	58	66	61	58	65	61	57					56				
8	76	65	59	54	74	65	58	54	64	58	54	62	57	54	61	57	53					52				
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50					49				
10	68	58	51	47	67	57	51	47	56	51	47	56	51	47	55	50	47					45				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	63933	63933	63933
5°	62250	62250	62358
10°	58344	58121	58510
15°	53293	52384	53405
20°	47423	45727	47597
25°	41236	38936	41720
30°	34662	32127	35169
35°	26796	25723	27400
40°	16766	19200	17120
45°	8847	13347	9006
50°	5546	8708	5633
55°	4114	5074	4211
60°	3074	3513	3074
65°	2333	2730	2333
70°	2090	2241	2090
75°	1913	1913	1913
80°	1587	1587	1587
85°	1235	1235	1235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.0	9.5
10°-20°	330.2	23.5
20°-30°	386.7	27.5
30°-40°	309.0	22.0
40°-50°	146.9	10.4
50°-60°	57.8	4.1
60°-70°	25.7	1.8
70°-80°	12.3	0.9
80°-90°	3.3	0.2
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°	851.0	60.5
0°-40°	1160.0	82.5
0°-60°	1364.6	97.1
0°-90°	1405.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1405.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1485	1485	1485	1485	1485	
5°	1440	1440	1440	1442	1443	134
15°	1196	1183	1175	1185	1198	333
25°	868	842	820	848	878	397
35°	510	491	489	497	521	313
45°	145	175	219	177	148	123
55°	55	61	68	62	56	51
65°	23	24	27	24	23	24
75°	12	12	12	12	12	12
85°	2	2	2	2	2	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1484.9	1484.9	1484.9	1484.9	1484.9
2.5°	1473.4	1473.4	1472.2	1473.4	1473.4
5°	1440.3	1440.3	1440.3	1441.6	1442.8
7.5°	1391.9	1391.9	1389.3	1393.1	1394.4
10°	1334.5	1330.7	1329.4	1332.0	1338.3
12.5°	1266.9	1260.6	1254.2	1261.9	1270.8
15°	1195.6	1182.8	1175.2	1185.4	1198.1
17.5°	1116.5	1100.0	1088.5	1103.8	1120.4
20°	1035.0	1017.1	998.0	1019.7	1038.8
22.5°	950.8	927.9	908.8	934.3	961.0
25°	868.0	842.5	819.6	847.6	878.2
27.5°	782.6	754.6	731.6	762.2	795.3
30°	697.2	667.9	646.2	678.1	707.4
32.5°	605.4	576.1	565.9	586.3	614.4
35°	509.8	490.7	489.4	497.1	521.3
37.5°	411.7	409.1	413.0	414.2	414.2
40°	298.3	325.0	341.6	331.4	304.6
42.5°	206.5	243.4	274.0	247.3	212.9
45°	145.3	174.6	219.2	177.2	147.9
47.5°	105.8	128.7	173.3	130.0	107.1
50°	82.8	96.9	130.0	95.6	84.1
52.5°	67.6	76.5	93.0	76.5	68.8
55°	54.8	61.2	67.6	62.5	56.1
57.5°	45.9	49.7	51.0	51.0	45.9
60°	35.7	39.5	40.8	39.5	35.7
62.5°	26.8	30.6	33.1	31.9	26.8
65°	22.9	24.2	26.8	24.2	22.9
67.5°	20.4	20.4	21.7	20.4	20.4
70°	16.6	17.8	17.8	17.8	16.6
72.5°	14.0	14.0	14.0	14.0	14.0
75°	11.5	11.5	11.5	11.5	11.5
77.5°	8.9	8.9	8.9	8.9	8.9
80°	6.4	6.4	6.4	7.6	6.4
82.5°	5.1	5.1	5.1	5.1	5.1
85°	2.5	2.5	2.5	2.5	2.5
87.5°	1.3	1.3	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)