

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: P238150

Luminaire Tested: **PRS620D010-S6M12-61SMDMB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-14)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS620D010-S6M12-61SMDMB
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

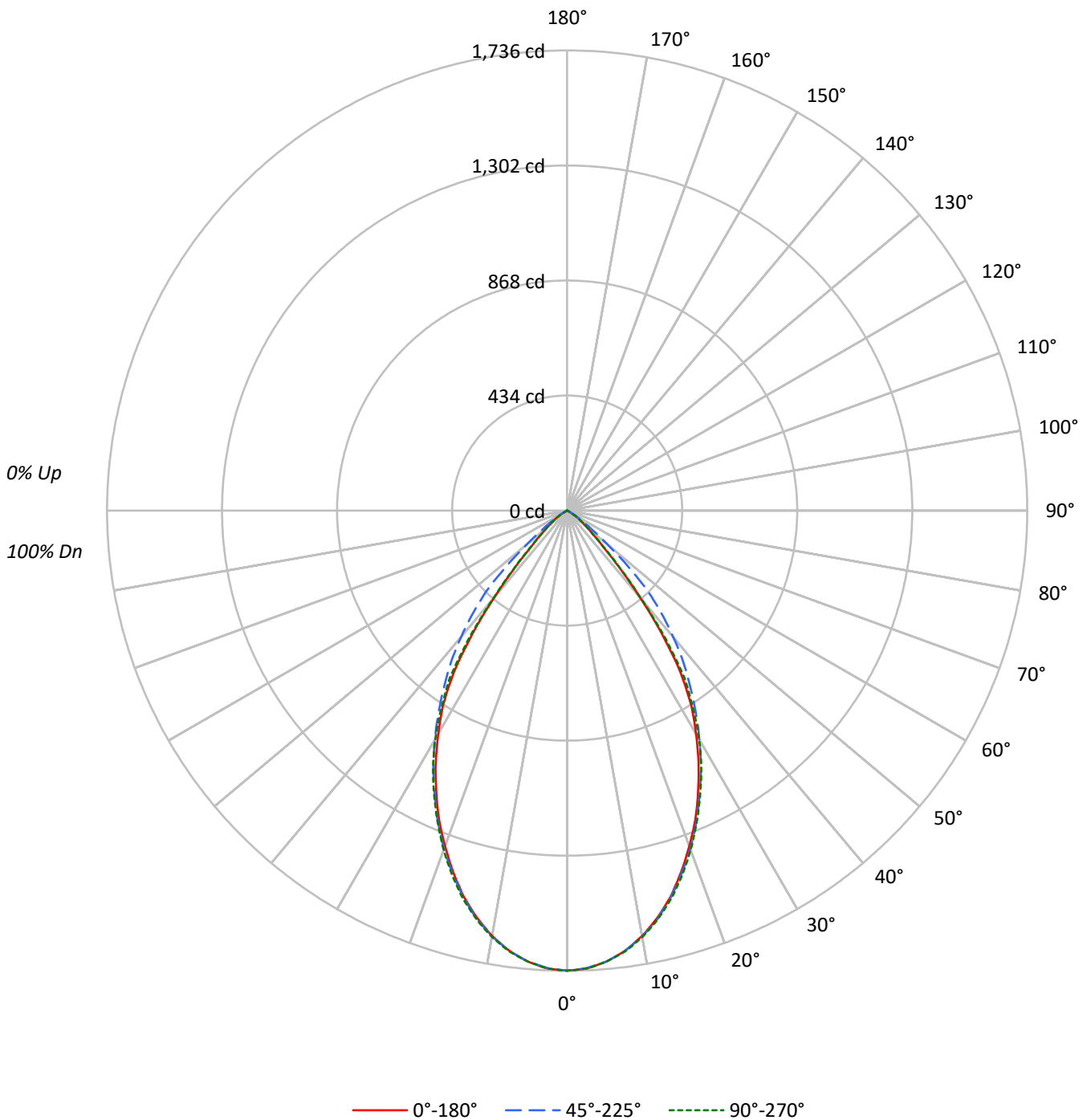
Lumens per Lamp: N/A
Luminaire Lumens: 1901.5 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.95 / 1
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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	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	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93				93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85				85
3	101	94	88	84	99	92	88	84	90	86	82	87	84	81	85	82	80	78				78
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	80	76	73	72				72
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	74	70	67	66				66
6	85	75	68	64	83	74	68	63	73	67	63	71	66	63	70	65	62	61				61
7	80	70	63	59	78	69	63	59	68	62	58	67	62	58	65	61	58	56				56
8	76	65	59	54	74	65	58	54	63	58	54	62	57	54	61	57	53	52				52
9	72	61	55	50	70	61	54	50	60	54	50	59	54	50	58	53	50	48				48
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	54	50	46	45				45

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	74736	74736	74736
5°	73803	73803	73803
10°	71242	71333	71430
15°	67218	67312	67602
20°	61736	62231	62433
25°	55559	56177	56381
30°	48324	49622	49513
35°	39232	42538	40598
40°	24022	34999	24511
45°	11496	26292	11892
50°	6397	13082	6397
55°	3746	5375	3911
60°	930	2428	1119
65°	0	662	224
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°	160.6	8.4
10°-20°	422.5	22.2
20°-30°	540.4	28.4
30°-40°	482.1	25.4
40°-50°	230.5	12.1
50°-60°	60.4	3.2
60°-70°	5.1	0.3
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°	1123.5	59.1
0°-40°	1605.6	84.4
0°-60°	1896.4	99.7
0°-90°	1901.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1901.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1736	1736	1736	1736	1736	
5°	1708	1708	1708	1710	1708	161
15°	1508	1508	1510	1514	1517	421
25°	1170	1174	1182	1187	1187	535
35°	746	783	809	794	772	450
45°	189	260	432	262	195	165
55°	50	65	72	65	52	45
65°	0	2	6	0	2	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°	1735.8	1735.8	1735.8	1735.8	1735.8
2.5°	1729.3	1729.3	1727.1	1729.3	1729.3
5°	1707.6	1707.6	1707.6	1709.7	1707.6
7.5°	1675.0	1675.0	1675.0	1677.2	1677.2
10°	1629.5	1629.5	1631.6	1633.8	1633.8
12.5°	1573.0	1573.0	1577.4	1579.6	1579.6
15°	1508.0	1508.0	1510.1	1514.5	1516.6
17.5°	1429.8	1432.0	1436.4	1440.7	1442.9
20°	1347.4	1349.6	1358.2	1362.6	1362.6
22.5°	1262.8	1264.9	1273.6	1278.0	1275.8
25°	1169.5	1173.8	1182.5	1186.8	1186.8
27.5°	1074.0	1080.5	1093.5	1091.4	1095.7
30°	972.0	982.9	998.1	998.1	995.9
32.5°	872.2	885.2	902.6	893.9	883.1
35°	746.4	783.3	809.3	794.1	772.4
37.5°	588.0	670.4	718.2	685.6	611.9
40°	427.4	525.1	622.7	538.1	436.1
42.5°	288.6	375.4	527.2	386.2	299.4
45°	188.8	260.4	431.8	262.5	195.3
47.5°	130.2	173.6	312.4	175.7	132.4
50°	95.5	121.5	195.3	121.5	95.5
52.5°	71.6	89.0	119.3	89.0	71.6
55°	49.9	65.1	71.6	65.1	52.1
57.5°	30.4	43.4	43.4	43.4	30.4
60°	10.8	23.9	28.2	23.9	13.0
62.5°	0.0	6.5	15.2	6.5	0.0
65°	0.0	2.2	6.5	0.0	2.2
67.5°	0.0	0.0	2.2	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)