

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: P238134

Luminaire Tested: **PRS615D010-S6M12-61SNDMB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-13)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS615D010-S6M12-61SNDMB
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

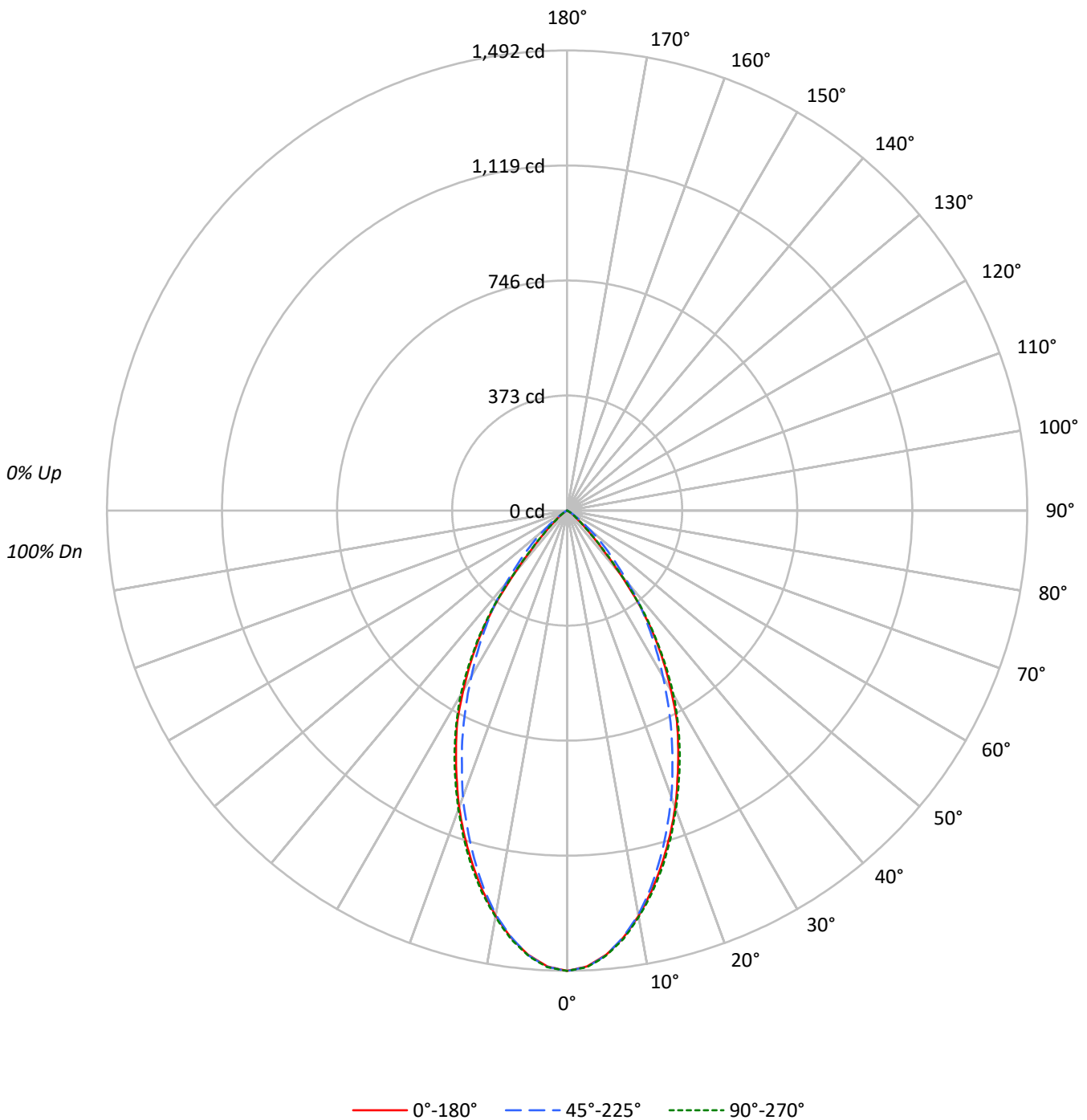
Lumens per Lamp: N/A
Luminaire Lumens: 1283.5 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.85
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93				93
2	108	103	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86				86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80				80
4	96	89	83	79	95	87	82	78	85	81	77	83	79	76	81	78	75	74				74
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	68				68
6	87	77	71	67	85	77	71	66	75	70	66	74	69	66	72	68	65	64				64
7	82	72	66	62	81	72	66	62	70	65	61	69	65	61	68	64	61	59				59
8	78	68	62	58	77	67	62	58	66	61	57	65	61	57	64	60	57	55				55
9	74	64	58	54	73	64	58	54	63	57	54	62	57	53	61	56	53	52				52
10	70	60	55	51	69	60	54	50	59	54	50	58	54	50	58	53	50	49				49

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	64261	64261	64261
5°	62492	62548	62609
10°	58327	58152	58502
15°	52879	51987	53293
20°	46914	45264	47216
25°	40480	38077	41051
30°	33494	30844	34289
35°	25545	24141	26034
40°	14816	17362	15265
45°	6564	11350	6728
50°	3121	6330	3121
55°	1696	2597	1696
60°	577	1033	577
65°	0	275	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°	134.5	10.5
10°-20°	328.3	25.6
20°-30°	378.5	29.5
30°-40°	291.9	22.7
40°-50°	119.8	9.3
50°-60°	28.2	2.2
60°-70°	2.3	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°	841.3	65.5
0°-40°	1133.2	88.3
0°-60°	1281.2	99.8
0°-90°	1283.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1283.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1492	1492	1492	1492	1492	
5°	1446	1446	1447	1449	1449	134
15°	1186	1177	1166	1178	1196	331
25°	852	823	802	831	864	390
35°	486	462	459	473	495	296
45°	108	140	186	144	110	95
55°	23	29	35	29	23	21
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°	1492.5	1492.5	1492.5	1492.5	1492.5
2.5°	1479.2	1480.5	1480.5	1481.9	1481.9
5°	1445.9	1445.9	1447.2	1448.6	1448.6
7.5°	1396.7	1395.3	1394.0	1396.7	1400.6
10°	1334.1	1330.1	1330.1	1332.7	1338.1
12.5°	1263.5	1256.9	1252.9	1258.2	1270.2
15°	1186.3	1177.0	1166.3	1178.3	1195.6
17.5°	1106.4	1093.1	1077.1	1094.4	1114.4
20°	1023.9	1002.6	987.9	1006.5	1030.5
22.5°	936.0	913.3	892.0	920.0	946.6
25°	852.1	822.8	801.5	830.8	864.1
27.5°	770.9	732.3	709.6	741.6	778.9
30°	673.7	645.7	620.4	653.7	689.7
32.5°	580.5	551.2	539.2	560.5	592.5
35°	486.0	462.0	459.3	472.7	495.3
37.5°	380.8	379.5	387.4	384.8	388.8
40°	263.6	295.6	308.9	298.2	271.6
42.5°	170.4	207.7	241.0	213.0	179.7
45°	107.8	139.8	186.4	143.8	110.5
47.5°	67.9	90.5	139.8	93.2	69.2
50°	46.6	59.9	94.5	59.9	46.6
52.5°	32.0	41.3	58.6	41.3	33.3
55°	22.6	29.3	34.6	29.3	22.6
57.5°	13.3	18.6	20.0	18.6	14.6
60°	6.7	10.7	12.0	10.7	6.7
62.5°	0.0	4.0	6.7	4.0	0.0
65°	0.0	0.0	2.7	0.0	0.0
67.5°	0.0	0.0	1.3	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)