

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

Report Number: P256531

Luminaire Tested: **RSQ6089401EMWWB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1806-815-3)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: RSQ6089401EMWWB
Description: HALO RSQ 6 INCH LED FIXTURE WITH MATT WHITE BAFFLE, 800LM, 90CRI, 4000K
Light Source: (15) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 844.0 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.14 / 1.24
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

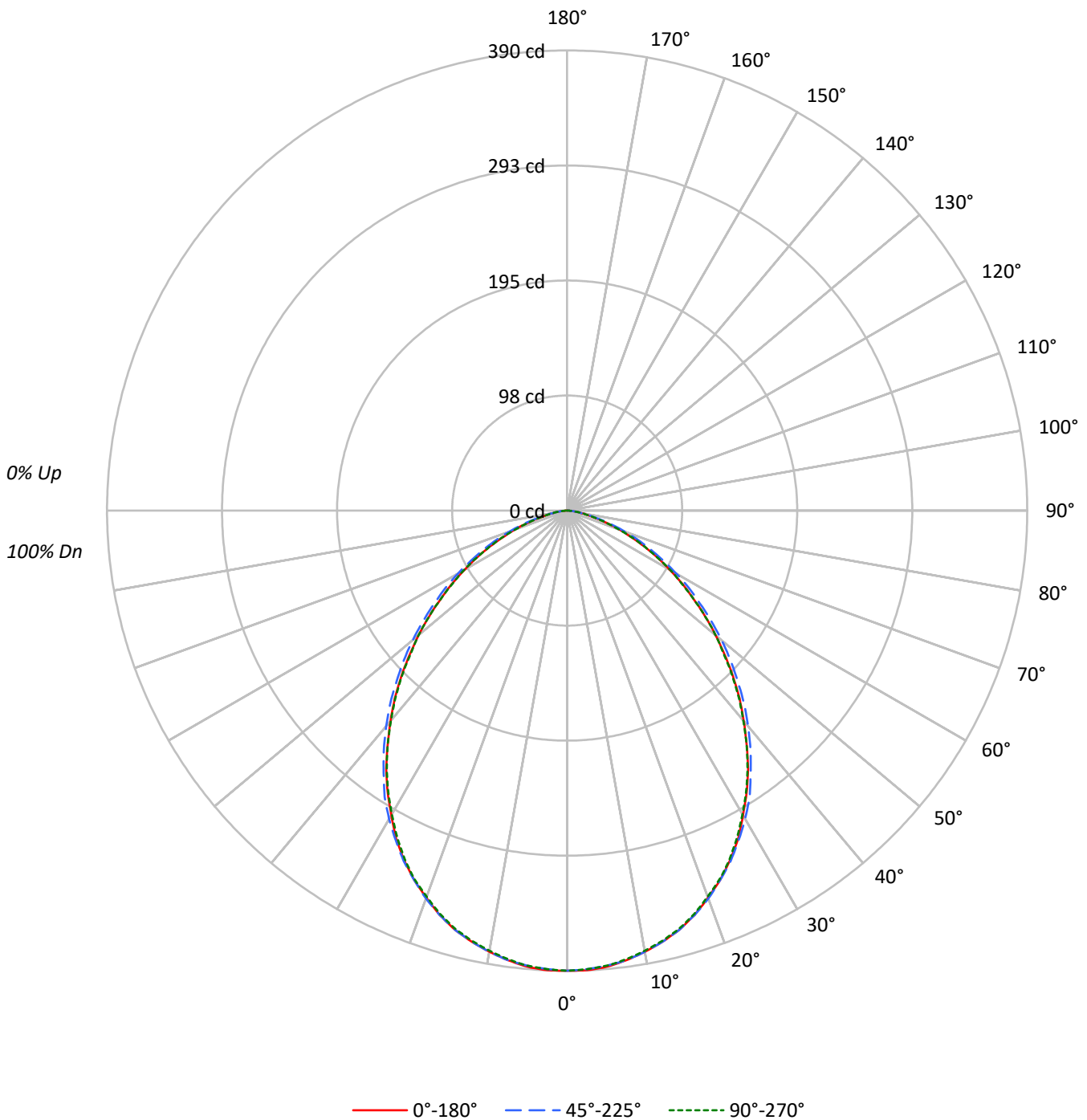
Input Watts (W): 9.33
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87					87			
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75					75			
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	67	64					64			
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49					49			
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39					39			
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35					35			
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32					32			
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	37781	37781	37781
5°	37741	37653	37653
10°	37351	37351	37263
15°	36878	36878	36787
20°	35990	36082	35897
25°	34932	35039	34836
30°	33335	33760	33234
35°	31624	32061	31517
40°	29466	30174	29352
45°	27222	27990	27099
50°	24762	25742	24762
55°	22109	23206	22109
60°	19433	20693	19608
65°	16596	17880	16596
70°	13426	14729	13143
75°	9395	10780	9732
80°	6750	6750	6750
85°	4113	5113	4113



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.7	4.3
10°-20°	103.3	12.2
20°-30°	150.2	17.8
30°-40°	167.9	19.9
40°-50°	155.2	18.4
50°-60°	120.5	14.3
60°-70°	74.8	8.9
70°-80°	30.0	3.6
80°-90°	5.4	0.6
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°	290.2	34.4
0°-40°	458.1	54.3
0°-60°	733.8	86.9
0°-90°	844.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	844.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	390	390	390	390	390	
5°	388	387	387	387	387	37
15°	368	367	368	367	367	103
25°	327	327	328	327	326	150
35°	267	269	271	268	266	167
45°	199	202	204	202	198	153
55°	131	135	137	135	131	118
65°	72	75	78	75	72	72
75°	25	27	29	27	26	29
85°	4	5	5	5	4	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	390.0	390.0	390.0	390.0	390.0
2.5°	390.0	389.0	389.0	389.0	389.0
5°	388.1	387.2	387.2	387.2	387.2
7.5°	384.4	383.5	384.4	383.5	383.5
10°	379.7	379.7	379.7	378.8	378.8
12.5°	374.2	373.3	374.2	373.3	373.3
15°	367.7	366.8	367.7	366.8	366.8
17.5°	359.3	359.3	359.3	358.4	358.4
20°	349.1	349.1	350.0	348.2	348.2
22.5°	338.9	338.9	338.9	338.0	338.0
25°	326.8	326.8	327.8	326.8	325.9
27.5°	313.8	313.8	314.8	313.8	312.0
30°	298.0	299.9	301.8	299.0	297.1
32.5°	283.2	285.0	287.8	285.0	282.3
35°	267.4	269.3	271.1	268.3	266.5
37.5°	249.8	252.5	255.3	252.5	249.8
40°	233.0	234.9	238.6	234.9	232.1
42.5°	216.3	218.2	221.9	218.2	215.4
45°	198.7	201.5	204.3	201.5	197.8
47.5°	181.1	184.8	187.6	183.8	180.1
50°	164.3	168.1	170.8	167.1	164.3
52.5°	147.6	151.3	154.1	150.4	147.6
55°	130.9	134.6	137.4	134.6	130.9
57.5°	116.1	118.8	122.6	118.8	115.1
60°	100.3	103.1	106.8	104.0	101.2
62.5°	86.3	89.1	91.9	89.1	86.3
65°	72.4	75.2	78.0	75.2	72.4
67.5°	58.5	61.3	65.0	62.2	59.4
70°	47.4	49.2	52.0	49.2	46.4
72.5°	36.2	38.1	39.9	37.1	35.3
75°	25.1	26.9	28.8	26.9	26.0
77.5°	17.6	18.6	19.5	18.6	17.6
80°	12.1	12.1	12.1	12.1	12.1
82.5°	7.4	7.4	7.4	7.4	7.4
85°	3.7	4.6	4.6	4.6	3.7
87.5°	1.9	1.9	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)