

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: FAIL-SAFE

Report Number: 10364.0

Luminaire Tested: **RVS-12100MHDTBK**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: 10364.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: RVS-12100MHDTBK
Description: FAIL-SAFE "VISION" SERIES 12"DIA WALLMOUNT
WHITE FLAT REFLECTOR w/FROSTED GLASS PRISMATIC LENS
BLACK PROTOTYPE LENS SHIELDING
Light Source: 1/100W CLEAR ED17 MH
M90 M100/U
Ballast/Driver: -

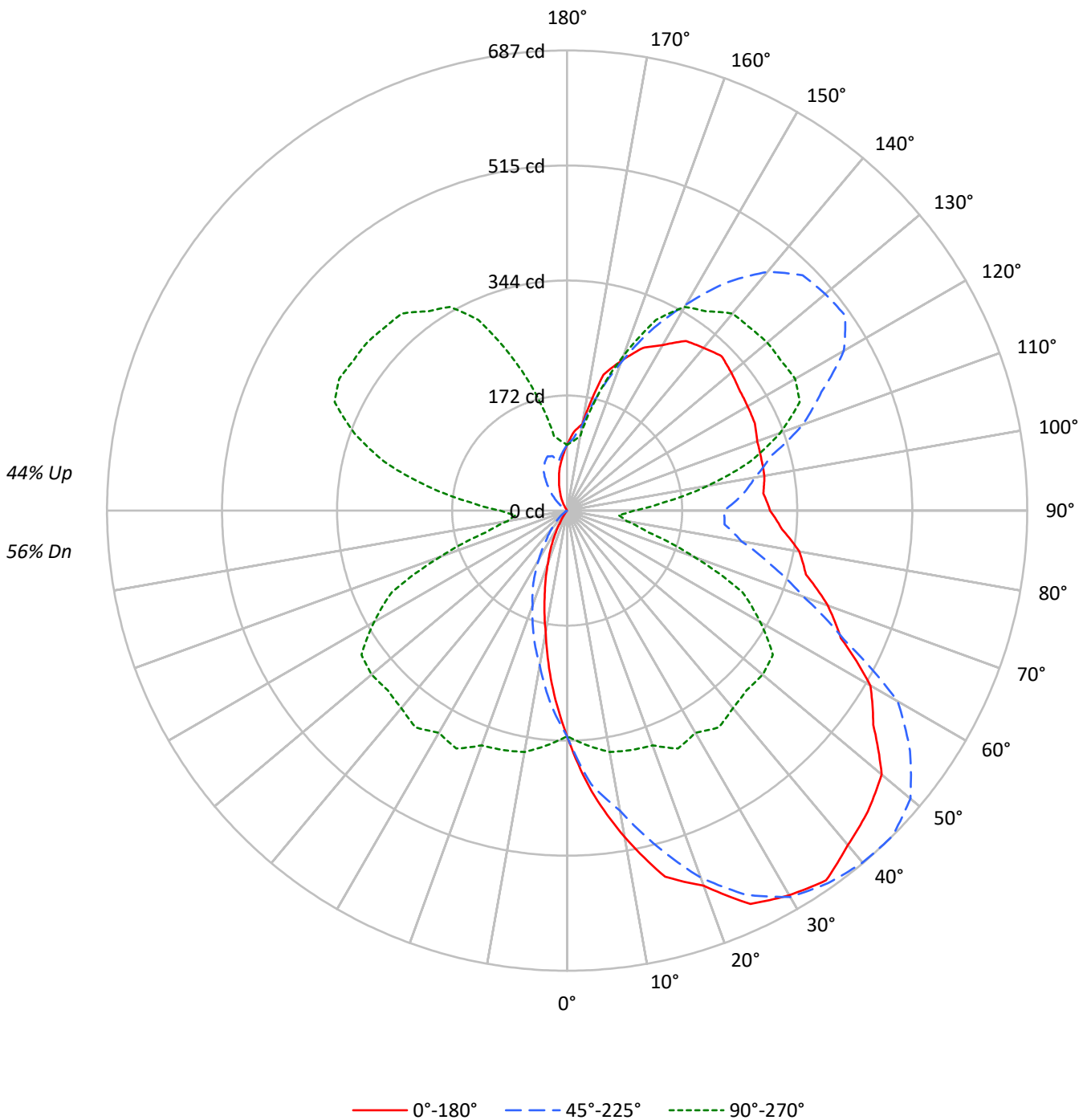
Summary

Lumens per Lamp: 8500 (1 lamp)
Luminaire Lumens: 2929.9 lumens
Efficiency: 34.5%
Efficacy: 29.3 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 1.71 / 1.77
Luminous Opening: Rectangular w/ Sides (W: 0.79' x L: 0.21' x H: 0.79')
CIE Type: General Diffuse

Input Watts (W): 100
Input Voltage (V): NR
Input Current (A_{in}): 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									
RC	80									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	37	37	37	37	35	35	35	35	30	30	30	25	25	25	21	21	21	19						19													
1	33	32	30	29	31	29	28	27	25	24	23	21	20	20	18	17	16	15						15													
2	30	27	25	23	28	25	23	21	22	20	18	18	17	16	15	14	13	12						12													
3	27	24	21	18	25	22	19	17	19	17	15	16	14	13	13	12	11	9						9													
4	25	21	18	15	23	19	17	14	16	14	13	14	12	11	11	10	9	8						8													
5	23	18	15	13	21	17	14	12	15	12	11	12	11	9	10	9	8	7						7													
6	21	16	13	11	19	15	12	10	13	11	9	11	9	8	9	8	7	6						6													
7	19	15	12	10	18	14	11	9	12	10	8	10	8	7	8	7	6	5						5													
8	18	13	10	8	16	12	10	8	11	9	7	9	7	6	8	6	5	4						4													
9	16	12	9	7	15	11	9	7	10	8	6	8	7	5	7	6	5	4						4													
10	15	11	8	7	14	10	8	6	9	7	6	8	6	5	6	5	4	3						3													

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	22020	22020	22020
5°	20713	21230	12792
10°	19650	20643	7304
15°	18952	19740	4319
20°	17370	19015	2448
25°	16832	19274	1325
30°	15640	18320	519
35°	14664	18532	174
40°	13257	17856	0
45°	12205	17511	0
50°	11252	17670	0
55°	9874	17593	0
60°	8999	15928	0
65°	7608	14209	0
70°	6901	10247	0
75°	6124	6669	0
80°	5862	5076	0
85°	5422	4644	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	33.1	1.1	0.4	0°	337	337	337	337	337	
10°-20°	101.5	3.5	1.2	5°	421	410	352	288	260	42
20°-30°	171.1	5.8	2.0	15°	566	519	370	193	129	159
30°-40°	230.4	7.9	2.7	25°	648	633	392	119	51	296
40°-50°	271.1	9.3	3.2	35°	674	679	395	55	8	418
50°-60°	284.2	9.7	3.3	45°	635	687	379	24	0	490
60°-70°	236.9	8.1	2.8	55°	558	625	375	3	0	504
70°-80°	168.7	5.8	2.0	65°	451	456	289	0	0	456
80°-90°	132.8	4.5	1.6	75°	369	316	125	0	0	398
90°-100°	149.7	5.1	1.8	85°	322	236	77	0	0	270
100°-110°	192.2	6.6	2.3	90°	303	234	100	0	0	167
110°-120°	228.6	7.8	2.7	95°	294	262	146	0	0	244
120°-130°	230.0	7.8	2.7	105°	300	315	283	0	0	318
130°-140°	202.1	6.9	2.4	115°	309	419	383	0	0	305
140°-150°	153.3	5.2	1.8	125°	314	507	390	9	0	282
150°-160°	94.4	3.2	1.1	135°	326	497	386	28	0	250
160°-170°	40.2	1.4	0.5	145°	309	416	363	56	0	192
170°-180°	9.7	0.3	0.1	155°	268	297	314	79	21	123
0°-30°	305.6	10.4	3.6	165°	210	180	180	84	47	57
0°-40°	536.1	18.3	6.3	175°	118	108	104	86	80	11
0°-60°	1091.3	37.2	12.8	180°	98	98	98	98	98	
0°-90°	1629.7	55.6	19.2							
90°-120°	570.6	19.5	6.7							
90°-150°	1155.9	39.5	13.6							
90°-180°	1300.0	44.4	15.3							
0°-180°	2929.9	100.0	34.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	337	337	337	337	337	337	337	337	337
5°	421	419	410	375	352	309	288	276	260
10°	495	484	455	415	366	297	235	210	184
15°	566	559	519	460	370	269	193	148	129
20°	596	605	583	514	373	245	151	96	84
25°	648	666	633	534	392	217	119	67	51
30°	663	685	666	569	383	193	85	37	22
35°	674	708	679	593	395	173	55	16	8
40°	652	695	686	582	385	146	37	6	0
45°	635	675	687	587	379	131	24	0	0
50°	613	662	669	594	381	118	12	0	0
55°	558	612	625	567	375	100	3	0	0
60°	523	526	570	511	333	84	0	0	0
65°	451	466	456	414	289	61	0	0	0
70°	414	395	375	323	201	42	0	0	0
75°	369	361	316	248	125	21	0	0	0
80°	352	323	264	193	90	10	0	0	0
85°	322	296	236	165	77	7	0	0	0
90°	303	271	234	183	100	15	0	0	0
95°	294	277	262	231	146	31	0	0	0
100°	299	282	285	277	213	44	0	0	0
105°	300	287	315	347	283	67	0	0	0
110°	302	300	374	427	338	80	0	0	0
115°	309	310	419	496	383	95	0	0	0
120°	311	334	477	527	393	105	0	0	0
125°	314	338	507	538	390	122	9	0	0
130°	320	346	503	538	390	140	16	0	0
135°	326	340	497	541	386	148	28	0	0
140°	317	326	465	518	384	157	41	0	0
145°	309	310	416	485	363	171	56	9	0
150°	285	281	355	410	351	183	71	18	10
155°	268	242	297	357	314	176	79	30	21
160°	238	210	235	270	246	165	86	42	32
165°	210	175	180	187	180	129	84	49	47
170°	131	135	129	123	113	101	74	62	64
175°	118	113	108	106	104	99	86	83	80
180°	98	98	98	104	98	98	98	98	98

(END OF REPORT)